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STATISTICS OF HAWAIIAN AGRICULTURE
1981

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EXECUTIVE CHAMBERS
HONOLULU

GEORGE R. ARIYOSHI
GOVERNOR

MESSAGE FROM GOVERNOR GEORGE R. ARIYOSHI

Agriculture plays an essential role in the economy of our State. It contributes substantially to the social and economic fabric of Hawaii by providing not only jobs for our people but also open spaces for the enjoyment of all.

Because agriculture plays such an important role in our society, this Administration will continue to place a high priority on developing self-sufficiency in producing food and the diversification of export crops, while at the same time supporting our basic crops of sugar and pineapple.

We have made considerable progress in these essential pursuits, and we intend to accelerate this progress in the future.

George R. Ariyoshi

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The value of agriculture, including processed sugar and pineapple, declined sharply in 1981 due primarily to lower sugar prices. Further, a worldwide surplus of processed pineapple had a dampening effect on sales much of last year. Sugar and pineapple problems persist and are of great concern to all of us.

On the bright side, diversified agriculture made strong gains in 1981 reaching record highs for both total value of sales and its share of all agricultural sales. Continued growth and diversification of agriculture is a goal I share with Hawaii's farmers.

Statistics of Hawaiian Agriculture is our annual summary publication which is part of an extensive schedule of reports issued by the Hawaii Agricultural Reporting Service. This cooperative program between the Hawaii Department of Agriculture and the Statistical Reporting Service, U. S. Department of Agriculture enables us to provide a comprehensive statistical program for all concerned with agriculture in Hawaii.

Jack K. Suwa

Jack K. Suwa
Chairman, Board of Agriculture

"Support Hawaiian Agricultural Products"

STATISTICS
OF
HAWAIIAN AGRICULTURE

Most of the information in this publication is obtained by surveys of farmers and ranchers. Supplemental information is provided by grower organizations and agribusiness firms. Several other State and Federal agencies also contribute toward development of these statistics. We wish to express our appreciation to all the persons and organizations who have helped.

Much of the information was obtained by personal interviews. Statisticians responsible for this work were: James Yamaki and Llewelyn Suzuki, Hawaii; Renan Mahikoa, Maui and Molokai; and Wendell Au and June Okamura, Oahu and Kauai. Processing the data and preparing the tables were done by the program support group of Georgia Kato, Betsy Komatsu, Natalie Nagaji, Verma Peterson, Amy Quinlan, and Joyce Satogata under the supervision of Joan Nakamatsu. Jan Yokogawa had responsibilities for computer processing and programming. Joyce Jay served as editor with commodity supervision provided by Sadao Sato for crop estimates; Nils Morita for livestock estimates; and Ronald Nakamura for special projects. Donald Martin is responsible for directing technical program operations of the office. Acknowledgements are expressed to Carol Igawa for administrative assistance.

An extensive schedule of current reports and forecasts are available upon request to the Hawaii Agricultural Reporting Service, P. O. Box 22159, Honolulu, Hawaii 96822.

Lloyd Garrett

Lloyd P. Garrett
Statistician in Charge

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HAWAII AGRICULTURE 1981

The major story of Hawaii's agriculture in 1981 was the low price of sugar which caused the farm value of agriculture to plunge 23 percent from a record high the previous year. The farm value of all agriculture in 1981 at $489.4 million compares with the $634.1 million farm value in 1980. The contribution of agriculture to Hawaii's economy, including the processed value of sugarcane, pineapple and government payments, was $738.4 million—down 26 percent from the previous year. Diversified agriculture made significant gains in several sectors during the year reaching a record high $192.3 million in farm value, 12 percent above 1980. In recent years, flowers and foliage plants have shown the highest sales growth rate of all diversified products. However, floriculture faltered in relation to its past trends and chalked up only a 7 percent gain in 1981. This was less than half the long term growth rate for the industry. Anthurium sales declined for the first time since records were started in 1969. The 23 percent drop in anthurium sales in 1981 was attributed to production problems as well as weakness in the European market. Milk moved into first position among diversified agriculture groups with $30.3 million in sales while cattle sales at $28.4 million dropped to third place. Beef sales have remained flat for the past three years. While all other diversified sectors showed substantial gains in sales value in 1981, their relative rankings were unchanged except for fruits. Papayas had a record year with farm value 23 percent above a year earlier in spite of marketing problems on the West Coast and Japan. Increased papaya sales value boosted the fruit category to sixth place among diversified agriculture.

SUMMARY: Acreage in crop and total farm acreage, by islands, 1977-81

Year	Sugarcane	Pineapples[1]	Vegetables and melons[2]	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Miscellaneous crops[3]	Total farm acreage[4]
				1,000 acres				
				STATE[5]				
1977.	220.7	45.0	3.8	5.1	2.4	9.9	6.2	2,050
1978.	220.7	43.0	4.0	5.2	2.3	10.2	6.0	1,980
1979.	218.8	44.0	4.3	5.3	2.1	11.4	4.9	1,980
1980.	217.7	43.0	3.9	5.2	1.9	13.2	6.4	1,970
1981.	216.1	41.0	4.2	5.4	1.8	13.7	8.0	1,965
				HAWAII				
1977.	93.1		1.1	3.4	2.4	9.8	2.6	1,215
1978.	92.6		1.2	3.4	2.3	10.1	2.7	1,150
1979.	91.7		1.6	3.6	2.1	11.1	1.1	1,150
1980.	91.2		1.5	3.6	1.9	12.2	1.0	1,150
1981.	90.5		1.5	3.7	1.8	12.5	1.1	1,150
				KAUAI/NIIHAU				
1977.	45.9		.1	.4		6/	.5	280
1978.	46.1		.1	.5		6/	.5	280
1979.	45.8		.1	.6		6/	.7	280
1980.	46.0	*	.1	.7		6/	.6	275
1981.	45.8	*	.1	.8		6/	.6	275
				MAUI/MOLOKAI/LANAI				
1977.	47.5	32.0	1.3	.6		6/	1.6	425
1978.	48.0	31.0	1.3	.6		6/	1.8	425
1979.	47.7	32.0	1.2	.3		6/	1.8	425
1980.	47.4	31.5	1.2	.1		6/	3.4	420
1981.	47.1	30.0	1.4	.1		6/	4.9	420
				OAHU				
1977.	34.2	13.0	1.3	.7		6/	1.5	130
1978.	34.0	12.0	1.4	.7		6/	1.0	125
1979.	33.6	12.0	1.4	.8		6/	1.3	125
1980.	33.1	11.5	1.1	.8		6/	1.4	125
1981.	32.7	11.0	1.2	.8		6/	1.4	125

* = Less than 500 acres.

[1] Land used for pineapple.

[2] Harvested acreage.

[3] Includes taro, seed corn, feed and forage crops (excluding pineapple feed products), and flowers, foliage and nursery products.

[4] Includes land not in crop and pasture such as farm house lots, roads, woodlots, etc.

[5] Sum of island estimates may not add to State total due to rounding.

[6] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Number of crop farms, by islands, 1977-81

Year	Sugar	Pineapples	Vegetables and melons	Fruits (excluding pineapples)	Coffee	Macadamia nuts	Taro	Flowers and nursery products
				STATE				
1977.	520	16	504	673	780	456	129	550
1978.	480	16	542	641	750	464	132	600
1979.	400	15	535	683	700	466	121	580
1980.	330	18	585	692	650	466	122	640
1981.	320	18	583	657	625	465	123	680
				HAWAII				
1977.	509		161	406	780	451	48	280
1978.	469		187	393	750	459	47	300
1979.	389		198	407	700	460	41	290
1980.	319		213	410	650	460	41	300
1981.	309		216	392	625	460	40	330
				KAUAI				
1977.	5		45	73		3	48	20
1978.	5		51	63		3	52	25
1979.	5		47	74		3	49	25
1980.	5	3	51	78		3	50	25
1981.	5	3	48	77		2	50	25
				MAUI/MOLOKAI/LANAI				
1977.	3	14	72	42		1	31	70
1978.	3	14	72	33		1	31	95
1979.	3	13	73	44		2	29	95
1980.	3	13	75	38		2	29	95
1981.	3	13	75	33		2	30	85
				OAHU				
1977.	3	2	226	152		1	2	180
1978.	3	2	232	152		1	2	180
1979.	3	2	217	158		1	2	170
1980.	3	2	246	166		1	2	220
1981.	3	2	244	155		1	3	240

SUMMARY: Number of livestock operations and total number of farms, by islands, 1977-81[1]

Year	Cattle[2]	Hogs	Milk	Eggs	Broilers	Honey	Total (non-duplicated)[3]
				STATE			
1977.......	900	640	80	70	10	23	4,100
1978.......	800	650	70	60	10	25	4,300
1979.......	800	650	70	60	10	25	4,300
1980.......	800	650	70	60	10	27	4,300
1981.......	**750**	**650**	**70**	**55**	**10**	**28**	**4,300**
				HAWAII			
1977.......	385	85	30	28		4	2,400
1978.......	355	85	24	23		3	2,500
1979.......	355	80	24	23		3	2,500
1980.......	360	80	24	23		3	2,500
1981.......	**350**	**70**	**24**	**23**		**3**	**2,500**
				KAUAI/NIIHAU			
1977.......	150	100	5	7	2	4	300
1978.......	155	100	5	5	2	12	300
1979.......	155	110	5	6	2	12	300
1980.......	150	110	5	6	2	14	300
1981.......	**140**	**115**	**5**	**4**	**2**	**12**	**300**
				MAUI/MOLOKAI/LANAI			
1977.......	255	120	20	9		5	500
1978.......	205	110	17	6		5	500
1979.......	205	100	17	5		5	500
1980.......	210	110	17	5		5	500
1981.......	**190**	**110**	**17**	**5**		**5**	**500**
				OAHU			
1977.......	110	335	25	26	8	10	900
1978.......	85	355	24	26	8	5	1,000
1979.......	85	360	24	26	8	5	1,000
1980.......	80	350	24	26	8	5	1,000
1981.......	**70**	**355**	**24**	**23**	**8**	**8**	**1,000**

1/ End of year.
2/ Includes beef, dairy, and dairy replacement operations.
3/ Based on new farm definition of $1,000 or more of agricultural sales.

SUMMARY: Volume of crop marketings, by islands, 1977-81

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)	Macadamia nuts (in shell)	Taro
	1,000 tons	1,000 tons	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds	1,000 pounds
				STATE 1/			
1977	8,994	690	68,380	76,830	2,270	19,680	7,870
1978	9,263	675	72,010	79,120	1,680	20,980	7,680
1979	9,632	681	70,250	56,600	2,190	26,660	6,640
1980	9,214	657	70,710	67,800	1,440	33,390	6,400
1981	**8,831**	**636**	**73,330**	**80,220**	**2,240**	**33,360**	**6,100**
				HAWAII			
1977	3,649		24,700	46,650	2,270	19,590	1,665
1978	3,936		27,270	50,000	1,680	20,890	1,550
1979	4,036		27,910	37,400	2,190	26,570	1,220
1980	3,718		31,290	51,570	1,440	33,270	700
1981	**3,507**		**32,040**	**61,860**	**2,240**	**33,240**	**450**
				KAUAI/NIIHAU			
1977	1,877		1,900	7,110		2/	4,820
1978	1,915		2,330	6,130		2/	4,920
1979	1,992		2,090	6,910		2/	4,330
1980	1,873	*	1,460	8,080		2/	4,550
1981	**1,949**	*****	**1,590**	**10,860**		**2/**	**4,450**
				MAUI/MOLOKAI/LANAI			
1977	2,097	454	25,660	15,460		2/	2/
1978	1,985	488	26,360	15,000		2/	2/
1979	2,110	491	24,220	5,410		2/	2/
1980	2,278	479	23,980	2,200		2/	2/
1981	**2,038**	**466**	**25,640**	**1,480**		**2/**	**2/**
				OAHU			
1977	1,371	236	16,120	7,590		2/	2/
1978	1,427	187	16,050	7,990		2/	2/
1979	1,494	190	16,030	6,880		2/	2/
1980	1,345	178	13,980	5,950		2/	2/
1981	**1,337**	**170**	**14,060**	**6,020**		**2/**	**2/**

* = Less than 500 tons.

1/ Sum of island estimates may not add to State total due to rounding of State estimates to 1,000 hundredweight of some crops included in United States totals.

2/ Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Volume of livestock marketings, by islands, 1977-81

Year	Beef (dressed weight)[1]	Pork (dressed weight)	Milk	Eggs	Broilers and chickens (ready-to-cook weight)	Honey
	1,000 pounds	1,000 pounds	Million pounds	Million	1,000 pounds	1,000 pounds
			STATE [2]			
1977..	32,325	8,762	147.5	218.4	6,158	679
1978..	33,544	9,869	147.3	217.9	6,786	812
1979..	29,325	7,785	147.3	229.3	7,136	910
1980..	28,809	8,012	149.4	220.5	7,890	861
1981..	**28,699**	**8,708**	**147.9**	**221.3**	**9,046**	**875**
			HAWAII			
1977..	20,071	1,222	[3]	[3]	[3]	[3]
1978..	21,979	1,190	[3]	[3]	[3]	[3]
1979..	17,317	834	[3]	[3]	[3]	[3]
1980..	18,201	929	[3]	[3]	[3]	[3]
1981..	**18,212**	**947**	**[3]**	**[3]**	**[3]**	**[3]**
			KAUAI			
1977..	2,925	400	[3]	[3]	[3]	[3]
1978..	3,170	492	[3]	[3]	[3]	[3]
1979..	2,515	378	[3]	[3]	[3]	[3]
1980..	3,165	648	[3]	[3]	[3]	[3]
1981..	**2,342**	**704**	**[3]**	**[3]**	**[3]**	**[3]**
			MAUI/MOLOKAI			
1977..	7,596	1,685	[3]	[3]	[3]	[3]
1978..	6,657	1,879	[3]	[3]	[3]	[3]
1979..	7,600	1,658	[3]	[3]	[3]	[3]
1980..	5,838	1,852	[3]	[3]	[3]	[3]
1981..	**6,321**	**2,090**	**[3]**	**[3]**	**[3]**	**[3]**
			OAHU			
1977..	1,733	5,455	120.3	190.0	5,765	[3]
1978..	1,738	6,308	119.6	186.8	6,450	[3]
1979..	1,893	4,915	117.5	197.6	6,739	[3]
1980..	1,605	4,583	119.4	191.1	7,550	[3]
1981..	**1,824**	**4,967**	**116.6**	**192.7**	**8,684**	**[3]**

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[1] Includes slaughter cattle but excludes calves shipped out-of-State.

[2] State totals may not add due to rounding.

[3] Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of crop sales, by islands, 1977-81

Year	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Vegetables and melons	Fruits (excluding pineapples)	Coffee (parchment)
			1,000 dollars		
			STATE		
1977.......	144,200	62,249	15,108	9,365	3,133
1978.......	182,700	63,090	16,585	10,488	2,117
1979.......	217,600	69,409	18,388	11,957	3,132
1980.......	385,100	76,596	18,552	12,982	2,304
1981.......	**207,400**	**89,745**	**21,669**	**15,429**	**4,480**
			HAWAII		
1977.......	51,900		4,889	5,781	3,133
1978.......	68,600		5,616	6,547	2,117
1979.......	79,500		6,624	7,674	3,132
1980.......	137,500		7,274	9,619	2,304
1981.......	**76,000**		**8,827**	**11,434**	**4,480**
			KAUAI		
1977.......	32,200		553	1,046	
1978.......	39,600		659	872	
1979.......	47,700		722	1,617	
1980.......	83,600	*	537	1,536	
1981.......	**46,600**	*	**595**	**2,095**	
			MAUI/MOLOKAI/LANAI		
1977.......	37,100	30,578	4,810	1,260	
1978.......	43,600	28,340	4,897	1,574	
1979.......	52,200	32,936	4,895	1,240	
1980.......	100,800	36,404	5,276	383	
1981.......	**50,600**	**39,915**	**6,352**	**291**	
			OAHU		
1977.......	23,000	31,671	4,856	1,278	
1978.......	30,900	34,750	5,413	1,495	
1979.......	38,200	36,473	6,147	1,426	
1980.......	63,200	40,192	5,465	1,444	
1981.......	**34,200**	**49,830**	**5,895**	**1,609**	

See footnotes at end of table.

Continued

SUMMARY: Value of crop sales, by islands, 1977-81 -- Continued

Year	Macadamia nuts (in shell)	Taro	Field crops (not estimated separately)[1]	Flowers and nursery products[2]	Total crops[3]
			1,000 dollars		
			STATE		
1977......	8,029	999	2,948	14,003	260,164
1978......	11,287	1,029	3,224	17,458	308,098
1979......	16,769	1,089	3,557	20,778	362,789
1980......	24,174	1,280	4,101	27,688	552,877
1981......	**26,454**	**1,305**	**5,017**	**29,599**	**401,248**
			HAWAII		
1977......	7,992	245	343	6,396	80,781
1978......	11,239	264	238	8,627	103,346
1979......	16,712	239	100	9,780	123,856
1980......	24,071	162	60	12,089	193,169
1981......	**26,355**	**104**	**56**	**12,496**	**139,885**
			KAUAI		
1977......	4/	588	477	170	35,071
1978......	4/	615	655	279	42,719
1979......	4/	641	935	153	51,819
1980......	4/	865	1,085	615	88,296
1981......	**4/**	**934**	**1,302**	**740**	**52,329**
			MAUI/MOLOKAI/LANAI		
1977......	4/	4/	1,027	1,696	76,643
1978......	4/	4/	1,267	2,467	82,300
1979......	4/	4/	1,536	2,899	95,918
1980......	4/	4/	1,773	4,342	149,218
1981......	**4/**	**4/**	**2,292**	**3,979**	**103,690**
			OAHU		
1977......	4/	4/	1,101	5,741	67,669
1978......	4/	4/	1,064	6,085	79,733
1979......	4/	4/	986	7,946	91,196
1980......	4/	4/	1,183	10,642	122,194
1981......	**4/**	**4/**	**1,367**	**12,384**	**105,344**

* = Less than $50,000.

1/ Forage and grain crops.

2/ Flowers, foliage, and nursery products.

3/ Total crop values shown for individual islands are actual. Sum of individual commodities may not add to total. Forest product's value combined and included in total crop value.

4/ Island data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

SUMMARY: Value of livestock sales, total value of crop and livestock sales, and government payments, by islands, 1977-81

Year	Cattle[1]	Hogs[1]	Milk	Eggs	Broilers and chickens	Other[2]	Total livestock[3]	Total crops and livestock	Government payments[4]
					1,000 dollars				
					STATE				
1977	18,837	7,115	23,158	12,408	3,125	375	65,018	325,182	24,849
1978	24,370	7,961	23,715	12,699	3,335	477	72,557	380,655	4,594
1979	28,356	7,027	24,894	14,007	3,655	525	78,464	441,253	745
1980	28,074	7,457	27,071	13,910	4,181	531	81,224	634,101	716
1981	28,438	8,382	30,320	15,159	5,307	581	88,187	489,435	587
					HAWAII				
1977	11,485	888	5/	893	5/	316	15,307	96,088	8,968
1978	16,004	968	5/	858	5/	340	19,946	123,292	1,879
1979	17,323	784	5/	5/	5/	352	21,290	145,146	522
1980	17,973	892	5/	5/	5/	337	22,471	215,640	542
1981	18,092	954	5/	5/	5/	379	23,051	162,936	440
					KAUAI				
1977	1,848	380	5/	5/	5/	13	3,590	38,661	5,419
1978	2,252	486	5/	5/	5/	33	4,313	47,032	950
1979	2,137	391	5/	5/	5/	29	4,376	56,195	60
1980	3,118	674	5/	5/	5/	45	5,732	94,028	41
1981	2,295	746	5/	5/	5/	63	5,244	57,573	43
					MAUI/MOLOKAI/LANAI				
1977	4,664	1,483	5/	5/	5/	32	8,557	85,200	6,454
1978	5,050	1,628	5/	5/	5/	67	9,167	91,467	1,056
1979	7,178	1,625	5/	5/	5/	112	11,546	107,464	101
1980	5,580	1,865	5/	5/	5/	115	10,084	159,302	87
1981	6,398	2,146	5/	5/	5/	91	11,605	115,295	69
					OAHU				
1977	840	4,364	18,827	10,586	2,933	14	37,564	105,233	4,008
1978	1,064	4,879	19,340	10,663	3,148	37	39,131	118,864	709
1979	1,718	4,227	19,975	11,856	3,444	32	41,252	132,448	62
1980	1,403	4,026	21,719	11,767	3,988	34	42,937	165,131	46
1981	1,653	4,536	24,136	12,837	5,077	48	48,287	153,631	35

1/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

2/ Includes sheep, wool, turkeys, horses, honey, and beeswax.

3/ Total livestock value shown for individual islands for 1977-1980 are actual. Sum of individual commodities may not add to total.

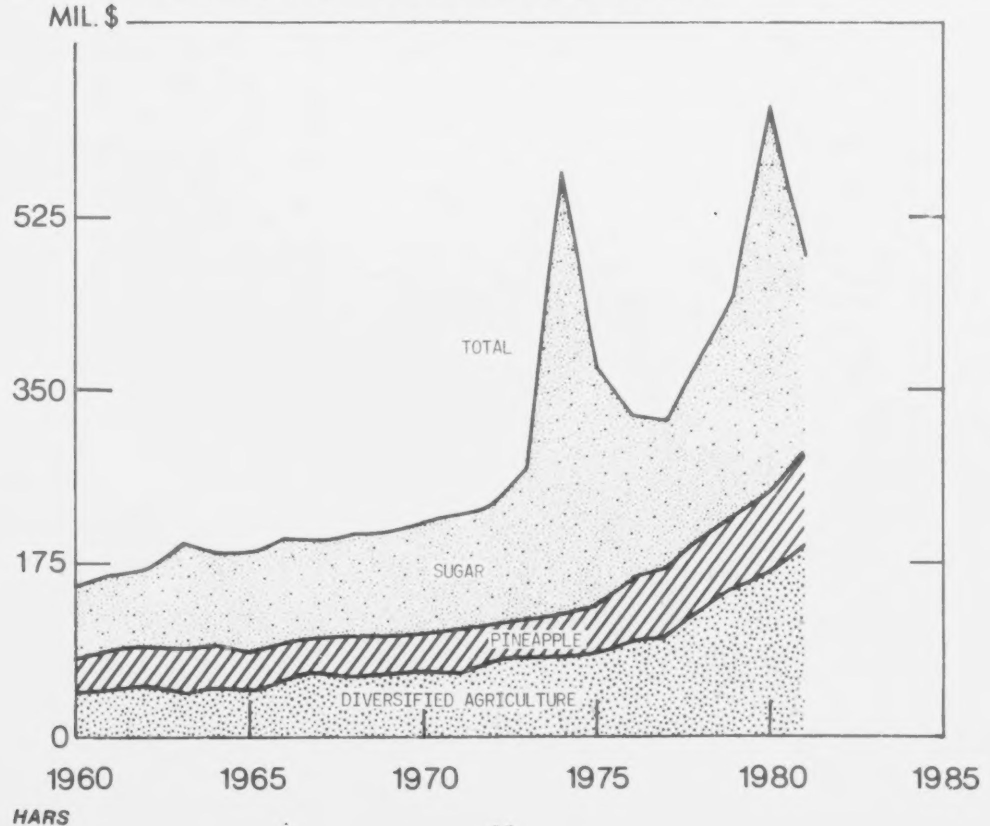
4/ Includes all government payments, such as Agricultural Conservation Program, Emergency Conservation Program, Forestry Incentives Program, Emergency Feed Program, wool payments, and sugar support.

5/ Island data not shown separately to avoid disclosure of individual operations but combined and included in State total.

Diversified agriculture ranked by value, State of Hawaii, 1979-81

Crops	Rank			Value of production			Percent of diversified agriculture		
	1979	1980	**1981**	1979	1980	**1981**	1979	1980	**1981**
	---Number---			-----1,000 dollars-----			-----Percent-----		
Milk..............	2	3	**1**	24,894	27,071	**30,320**	16.1	15.7	**15.8**
Flowers and nursery products.	3	2	**2**	20,778	27,688	**29,599**	13.5	16.1	**15.4**
Cattle............	1	1	**3**	28,356	28,074	**28,438**	18.4	16.3	**14.8**
Macadamia nuts....	5	4	**4**	16,769	24,174	**26,454**	10.9	14.0	**13.7**
Vegetables and melons...........	4	5	**5**	18,388	18,552	**21,669**	11.9	10.8	**11.3**
Fruits (excluding pineapple).......	7	7	**6**	11,957	12,982	**15,429**	7.7	7.5	**8.0**
Eggs..............	6	6	**7**	14,007	13,910	**15,159**	9.1	8.1	**7.9**
Hogs..............	8	8	**8**	7,027	7,457	**8,382**	4.6	4.3	**4.3**
Broilers and chickens.........	10	9	**9**	3,655	4,181	**5,307**	2.4	2.4	**2.8**
Forage, grain, and forest products..	9	10	**10**	3,667	4,201	**5,167**	2.4	2.4	**2.7**
Coffee............	11	11	**11**	3,132	2,304	**4,480**	2.0	1.3	**2.3**
Taro..............	12	12	**12**	1,089	1,280	**1,305**	.7	.8	**.7**
Other livestock...	13	13	**13**	525	531	**581**	.3	.3	**.3**
TOTAL...........				154,244	172,405	192,290	100.0	100.0	**100.0**

CASH RECEIPTS OF AGRICULTURAL COMMODITIES, STATE OF HAWAII, 1960-81



HARS

Food Spending and Income

The Nation's Personal Consumption Expenditures (PCE) for food rose to $337 billion in 1981, an increase of about 11 percent over 1980. But only about 2.5 percent of this increase was real food price inflation of about 8.5 percent accounted for the remainder.

Per person food spending for 1981 reached $1,465, about 10 percent above 1980. Even after adjusting for price increases, food spending per person rose 1.5 percent.

Annual Disposable Personal Income (DPI) for 1981 was slightly over $2 trillion, an increase of about 10.5 percent above 1980. After adjusting for population increases and inflation, DPI was 1 percent higher than in 1980.

PCE for food-at-home rose 10.8 percent over 1980 to $247 billion in 1981. Over 8.5 percent of that increase was due to higher grocery store food prices, and another 1 percent reflected population growth. Real per person food-at-home spending (adjusted for inflation by using 1972 dollars) rose a little more than 1 percent from 1980 to 1981. The portion of DPI allocated to grocery store food expenditures rose from 12.2 percent to 12.3 percent, but was still below the decade high of 12.7 percent in 1975.

PCE for food away from home averaged nearly $90 billion in 1981 or 11.7 percent above 1980. About 9 percent of that increase was due to higher prices, and another 1 percent was due to population growth. Nevertheless, real per person food away from home spending, a measure of real volume growth, rose 1.5 percent following the drop in 1980.

Personal Consumption, Quarters, 1981 Expenditures and Allocation

Item	1981			
	I	II	I	II
	Percent		Billion Dollars	
Total personal consumption expenditures	92.9	92.1	1810.1	1828.1
Nondurables	37.3	37.0	726.0	736.3
Food, beverages, and other groceries[1]	22.1	22.1	431.4	436.1
Food exc. alcoholic beverages	16.8	16.8	327.4	332.8
At home	12.2	12.3	238.5	244.2
Away from home	4.6	4.5	88.9	83.6
Alcoholic beverages	2.3	2.3	45.0	44.9
At home	1.5	1.4	28.3	27.7
Away from home	0.9	0.9	16.7	17.2
Cleaning and household supplies	1.1	1.1	20.8	21.4
Toiletries	0.8	0.8	16.1	16.4
Tobacco	1.1	1.1	22.0	22.5
Drugs	1.0	1.0	19.1	19.4
Clothing and shoes	5.8	5.8	113.4	115.8
Gas and oil	4.8	4.7	93.5	92.4
Fuel oil and coal	1.1	1.1	20.5	21.0
Other	2.5	2.5	48.1	48.8
Durables	12.2	11.4	238.3	227.3
Motor vehicles and parts	5.4	4.7	105.4	93.4
Furniture and household equipment	4.7	4.7	92.3	92.4
Other	2.1	2.1	40.6	41.6
Services	43.4	43.6	845.8	866.5
Housing	15.1	15.2	293.6	302.1
Household operation	6.1	6.2	118.1	123.4
Transportation	3.5	3.4	67.6	67.9
Personal care	0.9	0.9	17.4	17.6
Medical care	8.2	8.3	159.9	165.6
Personal business service	4.9	4.9	95.3	97.1
Recreational services	1.9	1.9	37.3	37.5
Other	2.9	2.8	56.6	55.2
Savings rate	4.6	5.4	88.9	106.6
Disposable personal income	100.0	100.0	1947.8	1985.6

[1] Contains some items not normally purchased in grocery stores.

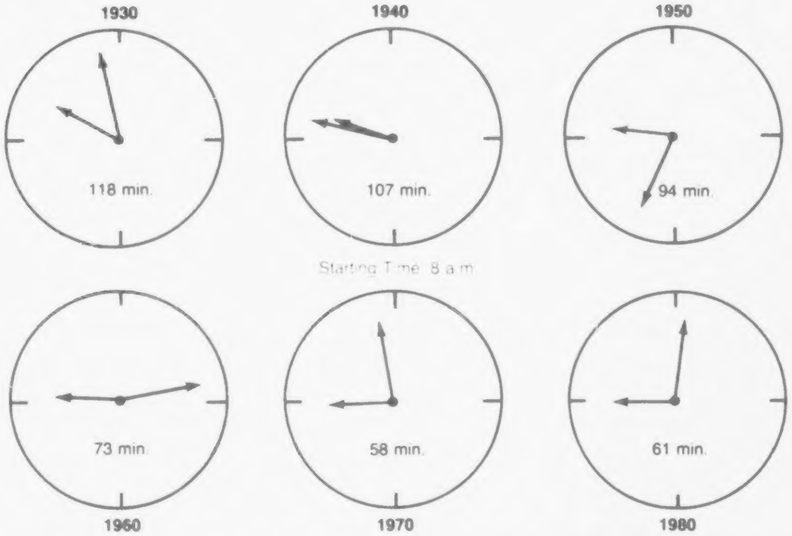
Source: National Food Review, Economic Research Service, United States Department of Agriculture, Winter 1982.

A Better Way To Measure Food Costs

While retail food prices are more than four times higher than a half century ago, the average worker's paycheck is more than 11 times higher.

As a result, the typical wage-earner worked only 61 minutes in 1980 to buy the same basket of foods that required almost 2 hours work in 1929.

The Average Wage Earner of 1930 Worked Nearly Twice as Long to Buy the Same Amount of Food[1]



[1] Based on average annual income and the cost for a comparable "basket" of foods representing average quantities purchased by urban wage earners in 1967 from 1 hour's work.

Today's Food Costs Compare Well With "Good Old Days"[1]

	1940	1950	1960	1970	1980
			1967=100		
Total food	177.8	156.2	122.4	96.3	101.2
Cereals and bakery products	188.4	139.4	121.1	91.3	98.0
Margarine	281.3	209.6	123.2	88.9	99.3
Sugar and sweets	206.1	158.9	125.3	96.5	135.7
Nonalcoholic beverages	—	181.8	127.3	98.4	157.4
Fresh fruits and vegetables	147.0	146.3	122.8	95.1	100.4
Processed fruits and vegetables	218.2	156.8	139.9	91.1	96.4
Meats	158.6	168.3	121.3	98.6	98.9
Beef and veal	167.7	179.9	128.1	100.2	107.5
Pork	152.5	160.4	113.6	97.1	83.1
Poultry	370.2	297.3	148.7	90.9	75.9
Fish	132.3	153.2	118.2	98.9	131.3
Dairy products	201.0	152.2	122.9	93.7	90.4
Eggs	323.2	248.2	157.4	118.0	67.5

[1] Consumer Price Index relative to after-tax income per member of the labor force.

Using the Index

By this yardstick, food costs fell more than 2.5 percent annually from 1947 to 1972, then shot up 11 percent from 1972 to 1974. Since then, the index has stayed on a plateau which has seen year-to-year variations of less than 3 percent.

Using the CPI's standard market basket of food—a widely used measure of food price movement—some items are better bargains than others in real price terms.

From 1940 to 1980, food costs fell:

- About 37.6 percent for all meats.
- Around 79.5 percent for poultry.
- 55 percent for dairy products.
- 64.7 percent for margarine.
- 55.8 percent for processed fruits and vegetables.
- For cereals and baked goods, about 48 percent.
- For sugar, 34.2 percent.

Source: Farmline, Economic Research Service, United States Department of Agriculture, [illegible].

1981 CROP SUMMARY

The year started with dry weather and ended with some heavy rains. Weather during the first 8 months was focused on the Island of Hawaii. With the exception of the Kona district, dry conditions affected the agricultural segments in varying degrees. Irrigation restrictions were imposed in the Waimea section in mid-January and frequently thereafter until the dry spell was over in August. During this period, farm activities paralleled the amount of water available in the reservoirs. As a result, normal plantings were curtailed. Agricultural crops receiving irrigation made good progress, not only in this area but in the other drought-inflicted districts as well. However, non-irrigated crops sustained light to heavy moisture stress. Torrential, isolated rains during the latter part of the year caused some washouts to vegetable and orchard crops in the Ka'u district. Periodic rains in the Kona area kept moisture levels adequate. Elsewhere on the other islands, weather was generally mild and favorable with some interruptions from the vagaries of nature. On Oahu, heavy rains in early May in the Kipapa, Koko Head, and Waimanalo sections caused heavy isolated damage to crops. The Waiawa stream overflowed in October and damaged the surrounding farms. Heavy December rains on Kauai and Maui affected crop development. Despite the drought and the few excessive rains during the year, total production of most commodities was up in 1981 compared with 1980.

SUGAR production in 1981 was 1.05 million tons compared with 1.02 million tons in 1980. Acreage for harvest remained virtually the same at 97.6 thousand acres. Yield per acre was down on the Islands of Hawaii and Maui where the prolonged drought during the first 8 months caused moisture stress in non-irrigated fields. The processed value of sugar and molasses totaled $327.9 million, 45 percent less than the $594.1 million of the previous year.

PINEAPPLE production totaled 636,000 tons, down 3 percent from the previous year. Total acreage utilized was 41,000 acres. Prices per ton for both processed and fresh fruit were above last year increasing the total farm value to $89.7 million, the highest on record.

The **FLOWER AND NURSERY PRODUCTS** industry had another record high year despite the tempering effects of a downturn in cut anthurium sales. The year was highlighted by a 23 percent decline in the value of anthurium sales which was more than offset by a 40 percent increase in sales of potted foliage plants for indoor or patio use. Anthurium growers, beset by problems of weakening foreign markets and production problems, saw their sales value drop to $5.3 million and for the first time were not the leading horticultural crop. Taking over the top spot were potted foliage plants with sales topping the $7 million mark. Sales of lei flowers and orchids also showed gains.

MACADAMIA NUT production for the 1981-82 crop year equaled the previous year's record high 33.4 million pounds. Early in the season growers indicated production would rise this crop year but the expected increase was not realized. This is attributed to dry conditions during the flowering period and nut losses from washouts by torrential rains in the Ka'u district of Hawaii during the harvesting season. Average price returned to growers was 79.3 cents per pound compared to 72.4 cents per pound last year. This price and the value of $26.5 million were both the highest on record. Acreage harvested remained the same at 10,000 acres but new plantings increased the total acreage to 13,700 acres. The average moisture content was 16.1 percent for purchased nuts and 19.8 percent for the entire crop.

Total **VEGETABLE AND MELON** production reached a record high 73.3 million pounds, up 4 percent from 1980. This record high occurred despite a prolonged drought which generally extended over the first eight months, especially in parts of the Island of Hawaii. Non-irrigated crops sustained moisture stress during this period but most irrigated crops made good progress without much yield reduction. Weather on the other islands was generally fair and favorable most of the year. There were some heavy showers during May and the last few months of the year that caused isolated, heavy damage to the agricultural segments. Acreage harvested at 4,250 acres was 8 percent above the previous year and helped push production to the new high. Increases from the 1980 output were registered by 21 of the 34 vegetables and melons being estimated. In terms of volume harvested, the Island of Hawaii contributed 44 percent of the State's total. Next came Maui with 35 percent, followed by Oahu, 19 percent and Kauai, 2 percent. Prices received by growers were up for most crops. For the first time, the value of the industry exceeded the $20.0 million mark, reaching an all-time high of $21.7 million. **TARO** production totaled 6.1 million pounds, the lowest on record since the inception of the series 40 years ago. Plantings on the Island of Hawaii have been light since the torrential rains of early and late 1979 that destroyed a great portion of the fields in the Waipio Valley. Total Big Island acreage as of November 1, 1981 was 45 acres, up slightly from the 30 acres of a year ago. Acreage in the other major growing areas remained virtually the same as a year earlier. Total acreage statewide was 340 acres. The value of the industry was $1.3 million, no change from the previous year because of the higher price per pound received by growers.

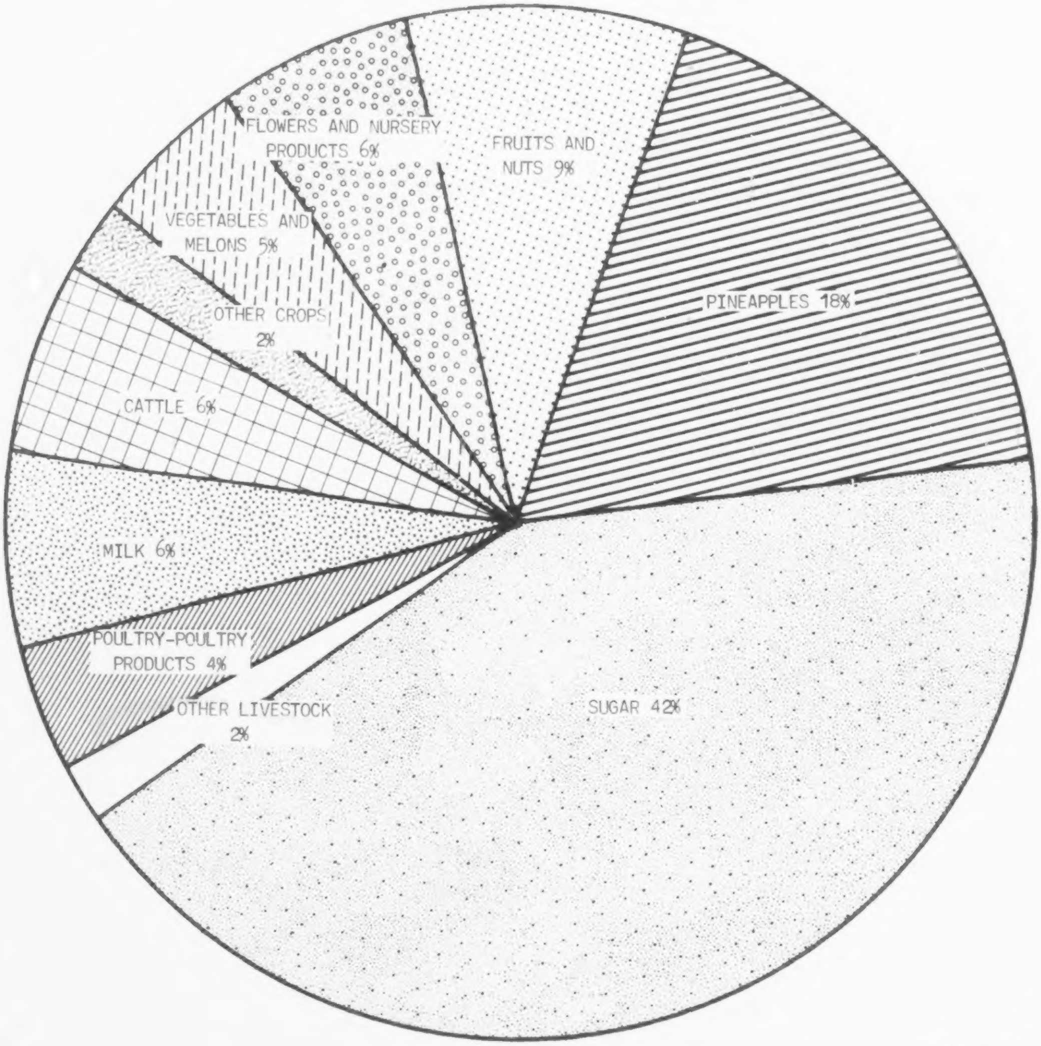
FRUIT production (excluding pineapples) was 80.2 million pounds, an 18 percent increase from the previous year. Papaya sales were up substantially and accounted for most of the total volume increase for the year. Total acreage utilized was 5,400 acres, compared with 5,200 acres in 1980. Total fruit value was $15.4 million, 9 percent more than last year.

COFFEE production for the 1981-82 crop is estimated at 2.24 million pounds, a sharp increase compared to the previous year's low of 1.44 million pounds. Weather in general was favorable in the Kona district with normal flower bloomings and heavy settings. Total acreage dropped 100 acres to 1,800 but harvested acreage remained the same at 1,700 acres. Average price returned to growers was $2.00 per pound, parchment basis, which is a record high. The value was $4.5 million.

Principal crops ranked by value, State of Hawaii, 1979-81

Crops	Rank			Value of production			Percent of all crops		
	1979	1980	**1981**	1979	1980	**1981**	1979	1980	**1981**
	-----Number-----			-----1,000 dollars-----			-----Percent-----		
Sugar................	1	1	**1**	217,600	385,100	**207,400**	60.0	69.7	**51.7**
Pineapple............	2	2	**2**	69,409	76,596	**89,745**	19.1	13.9	**22.4**
Macadamia nuts.......	3	3	**3**	16,769	24,174	**26,454**	4.6	4.4	**6.6**
Papayas..............	4	4	**4**	9,515	9,979	**12,267**	2.6	1.8	**3.1**
Potted foliage plants	6	6	**5**	4,052	5,190	**7,268**	1.1	.9	**1.8**
Anthuriums...........	5	5	**6**	5,568	6,878	**5,295**	1.5	1.2	**1.3**
Coffee...............	7	8	**7**	3,132	2,304	**4,480**	.9	.4	**1.1**
Tomatoes.............	8	7	**8**	2,170	2,387	**2,930**	.6	.4	**.7**
Lettuce..............	9	9	**9**	1,983	1,950	**2,315**	.5	.4	**.6**
Head cabbage.........	10	10	**10**	1,526	1,741	**1,792**	.4	.3	**.4**

STATE OF HAWAII, 1981 AGRICULTURAL VALUE RATIOS



HARS

WEATHER: Precipitation, selected stations, State of Hawaii, 1981

STATIONS	YEAR AND NORMAL	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	ANNUAL	% OF NORMAL
								Inches							
ISLAND OF HAWAII															
Hawaii Volcanoes National Park HQ (54).	Normal	10.61	10.23	11.75	10.10	7.75	4.67	5.23	7.20	4.58	6.89	11.47	12.33	102.81	
	1981	2.17	8.12	6.04	7.82	4.79	1.81	2.46	9.39	7.72	5.17	12.61	23.83	91.93	89.4
Hawi (168)............	Normal	4.70	4.34	5.22	5.04	3.56	2.96	3.93	4.19	2.27	3.61	4.02	5.92	49.76	
	1981	1.47	5.11	1.16	1.26	.53	1.12	1.46	7.27	1.95	3.25	6.08	3.01	33.67	67.7
Hilo Airport (87)......	Normal	9.07	12.90	13.69	12.88	10.07	6.61	9.54	10.88	7.44	10.96	13.77	15.76	133.57	
	1981	1.51	4.95	5.66	4.63	4.16	2.43	4.32	8.97	12.79	10.23	12.11	17.32	89.08	66.7
Kealakekua (HI 84).....	Normal	3.50	2.40	3.80	4.10	5.90	6.10	6.80	8.70	8.00	6.20	3.60	2.10	61.20	
	1981	--	--	3.13	11.82	6.92	7.06	4.07	5.08	2.88	1.70	4.12	2.64	49.42	80.7
Naalehu (14)..........	Normal	7.97	5.85	5.53	2.70	2.18	1.79	1.58	3.92	3.36	3.88	5.21	4.57	48.54	
	1981	2.12	1.08	3.04	1.71	1.36	.79	1.59	6.14	4.27	4.28	2.67	14.68	43.73	90.1
Pahoa (65)............	Normal	11.02	13.17	15.16	12.59	11.87	8.10	10.20	11.13	8.50	11.81	14.28	17.28	145.11	
	1981	4.78	5.70	10.00	7.89	8.21	4.41	9.49	10.84	16.74	*	19.55	17.09	114.70	79.0
Kamuela Airport (191)..	Normal	4.21	3.78	3.97	3.55	2.20	1.57	2.31	2.52	1.07	2.03	2.78	4.84	34.83	
	1981	.65	3.80	.89	6.05	1.41	.62	1.68	3.07	1.57	3.61	6.84	5.15	35.34	101.5
ISLAND OF KAUAI															
Eleele (927)..........	Normal	5.74	3.39	3.28	2.39	1.74	1.10	1.33	1.79	1.40	2.61	3.60	5.12	33.49	
	1981	1.89	1.83	2.05	2.40	.45	.37	2.05	1.23	.68	1.81	2.29	8.76	25.81	77.1
Kekaha (944)..........	Normal	4.63	2.57	2.37	1.56	1.04	.25	.39	.75	.74	1.72	2.18	4.24	22.44	
	1981	1.11	1.70	.34	.95	.14	.36	.43	1.26	1.14	.57	1.02	5.16	14.18	63.2
Wailua Uka (1062)......	Normal	9.42	7.09	8.28	7.07	5.45	4.07	5.68	6.60	4.65	7.45	9.03	9.41	84.20	
	1981	3.08	2.91	6.87	9.69	3.27	3.76	12.11	6.46	4.75	7.48	10.52	10.93	81.83	97.2
ISLAND OF LANAI															
Lanai Airport (656)....	Normal	5.50	1.40	1.60	.90	.70	.20	.50	.60	.70	1.60	1.20	2.30	17.20	
	1981	--	1.64	.23	.88	.23	.22	.27	1.21	.16	*	.65	--	5.49	31.9
ISLAND OF MAUI															
Hamakuapoko (485)......	Normal	5.10	4.85	5.81	4.50	2.83	2.39	3.60	3.65	1.89	3.69	5.07	6.73	50.11	
	1981	1.11	3.65	3.98	1.13	3.95	.81	2.13	2.80	2.12	4.44	7.23	3.00	36.35	72.5
Hana Airport (355).....	Normal	9.47	7.93	8.85	7.14	5.70	3.82	5.28	5.78	4.85	6.48	8.16	6.76	80.22	
	1981	2.00	2.01	3.50	3.54	7.14	1.91	3.52	4.78	5.16	18.53	10.98	6.49	69.56	86.7
Kihei (311)............	Normal	3.67	1.76	2.03	.79	.27	.10	.15	.19	.07	.68	1.69	2.39	13.79	
	1981	.26	2.55	.04	1.05	.30	0	0	1.20	.32	.01	1 24	.22	7.19	52.1
Kula Sanatorium (267)..	Normal	5.64	3.45	3.53	2.98	2.20	1.41	2.17	2.07	1.93	1.91	2.95	3.61	33.85	
	1981	1.70	4.31	1.16	1.80	.71	.31	.50	1.98	1.05	.47	4.52	3.10	21.61	63.8
Lahaina (361)..........	Normal	3.70	1.65	2.04	.93	.48	.09	.21	.33	.23	.90	2.07	2.86	15.49	
	1981	.38	1.22	.08	.54	.05	0	.03	.31	.14	.03	.32	5.03	8.13	52.5
Wailuku (386)..........	Normal	4.88	3.81	4.16	2.41	1.02	.43	.74	.77	.49	1.86	2.79	4.65	28.01	
	1981	.69	2.76	--	.61	3.20	.17	.02	1.41	1.34	1.39	2.05	3.56	17.20	61.4
ISLAND OF MOLOKAI															
Molokai Airport (524)..	Normal	4.64	2.84	3.90	1.90	1.14	.48	.74	.76	.70	1.59	3.48	4.37	26.54	
	1981	--	3.69	.62	2.03	1.29	.53	.30	1.22	.60	2.10	2.11	2.75	17.24	65.0
ISLAND OF OAHU															
Kahuku (HI09)..........	Normal	4.40	3.10	4.40	2.90	1.90	1.30	1.70	2.10	1.90	2.50	3.40	4.10	33.70	
	1981	1.39	1.23	2.00	3.53	.98	.92	2.54	2.54	2.16	4.91	2.51	3.06	27.77	82.4
Waialua (847)..........	Normal	4.99	3.65	3.84	2.32	1.34	.44	.95	1.26	.67	2.27	3.15	4.64	29.52	
	1981	1.18	2.97	.95	1.19	1.75	1.70	.82	.78	.82	1.42	2.94	6.49	23.01	78.0
Waianae (798.2)........	Normal	3.79	3.13	2.31	1.12	.61	.35	.38	.84	.77	1.87	1.81	2.66	19.64	
	1981	1.13	1.74	.13	.05	.13	1.04	.46	1.41	.06	1.95	.44	5.32	13.86	70.6
Waimanalo Experimental Farm (795.1)..........	Normal	8.35	3.98	5.80	4.11	2.83	1.22	1.92	1.88	1.81	3.59	6.31	6.26	48.06	
	1981	3.20	2.28	1.09	2.86	13.41	.93	1.58	3.45	2.00	2.54	3.65	5.95	42.94	89.4
Waipahu (750)..........	Normal	5.00	2.71	3.20	1.88	1.20	.36	.76	.92	.84	2.04	3.35	4.09	26.35	
	1981	.75	1.48	.83	.26	.63	.21	.33	1.28	.31	1.38	1.85	4.77	14.08	53.4

-- = No record. Data not recorded, determined unreliable by quality control checks, or not received in time for publication.

* = Gauge not read. Precipitation included in the amount following the asterisks. Time distribution not known.

Source: U. S. Department of Commerce, National Oceanic and Atmospheric Administration.

SUGARCANE: Number of farms, acreage, yield, production, price, and value, by islands, 1977-81[1]

Year	Farms[2]	Acreage		Yield per acre (cane)[3]	Production of cane for sugar	Farm price[3]	Value of cane for sugar[4]
		In crop[2]	Harvested for sugar				
	Number	----1,000 acres----		Tons	1,000 tons	Dollars per ton	Million dollars
				STATE			
1977..	520	220.7	96.8	92.9	8,994	16.00	144.2
1978..	480	220.7	99.4	93.2	9,263	19.70	182.7
1979..	400	218.8	100.6	95.7	9,632	22.60	217.6
1980..	330	217.7	97.4	94.6	9,214	41.80	385.1
1981..	300	216.1	97.6	90.5	8,831	23.50	207.4
				HAWAII			
1977..	509	93.1	36.0	101.3	3,649	14.20	51.9
1978..	469	92.6	38.4	102.4	3,936	17.40	68.6
1979..	389	91.7	39.4	102.5	4,036	19.70	79.5
1980..	319	91.2	37.4	99.5	3,718	37.00	137.5
1981..	289	90.5	38.4	91.3	3,507	21.70	76.0
				KAUAI			
1977..	5	45.9	22.2	84.6	1,877	17.20	32.2
1978..	5	46.1	22.1	86.7	1,915	20.70	39.6
1979..	5	45.8	23.2	85.7	1,992	24.00	47.7
1980..	5	46.0	22.5	83.4	1,873	44.60	83.6
1981..	5	45.8	21.8	89.4	1,949	23.60	46.6
				MAUI			
1977..	3	47.5	22.9	91.6	2,097	17.70	37.1
1978..	3	48.0	22.8	87.1	1,985	22.00	43.6
1979..	3	47.7	21.0	100.6	2,110	24.70	52.2
1980..	3	47.4	22.5	101.3	2,278	44.20	100.8
1981..	3	47.1	22.5	90.6	2,038	24.80	50.6
				OAHU			
1977..	3	34.2	15.7	87.4	1,371	16.80	23.0
1978..	3	34.0	16.1	88.9	1,427	21.60	30.9
1979..	3	33.6	17.0	87.8	1,494	25.60	38.2
1980..	3	33.1	15.0	89.5	1,345	47.00	63.2
1981..	3	32.7	14.9	89.7	1,337	25.60	34.2

[1] Primary data source, Hawaiian Sugar Planters' Association.

[2] At end of year.

[3] Yield and farm price may not compute exactly due to rounding.

[4] Value of cane for sugar estimated by deducting processing and marketing costs from value of sugar and molasses. Processing costs based on toll charges paid by independent producers.

SUGAR: Production of raw sugar and molasses, price, and value, by islands, 1977-81[1]

Year	Mill production		Average returns received[3]		Value of production		
	Raw sugar 96°	Molasses[2]	Raw sugar 96°	Molasses[2]	Raw sugar 96°	Molasses[2]	Total
	----1,000 tons----		---Dollars per ton---		-------Million dollars-------		
				STATE			
1977...	1,034	284	212	27.10	219.1	7.7	226.8
1978...	1,029	310	262	50.60	269.5	15.7	285.2
1979...	1,060	326	304	72.10	322.2	23.5	345.7
1980...	1,023	315	554	87.90	566.4	27.7	594.1
1981...	**1,048**	**312**	**300**	**43.90**	**314.2**	**13.7**	**327.9**
				HAWAII			
1977...	374	97	211	26.80	78.9	2.6	81.5
1978...	388	112	261	50.00	101.4	5.6	107.0
1979...	388	119	304	71.40	117.9	8.5	126.4
1980...	367	107	553	86.90	202.9	9.3	212.2
1981...	**384**	**105**	**299**	**43.80**	**114.9**	**4.6**	**119.5**
				KAUAI			
1977...	232	62	212	27.40	49.1	1.7	50.8
1978...	223	67	262	50.70	58.5	3.4	61.9
1979...	233	69	303	72.50	70.6	5.0	75.6
1980...	223	65	553	87.70	123.4	5.7	129.1
1981...	**236**	**69**	**300**	**43.50**	**71.0**	**3.0**	**74.0**
				MAUI			
1977...	265	75	212	28.00	56.3	2.1	58.4
1978...	245	76	262	51.30	64.2	3.9	68.1
1979...	253	81	304	72.80	76.8	5.9	82.7
1980...	266	90	554	88.90	147.4	8.0	155.4
1981...	**255**	**84**	**300**	**45.20**	**76.6**	**3.8**	**80.4**
				OAHU			
1977...	163	50	213	26.00	34.8	1.3	36.1
1978...	173	55	262	50.90	45.4	2.8	48.2
1979...	186	57	306	71.90	56.9	4.1	61.0
1980...	167	53	555	88.70	92.7	4.7	97.4
1981...	**173**	**54**	**299**	**42.60**	**51.7**	**2.3**	**54.0**

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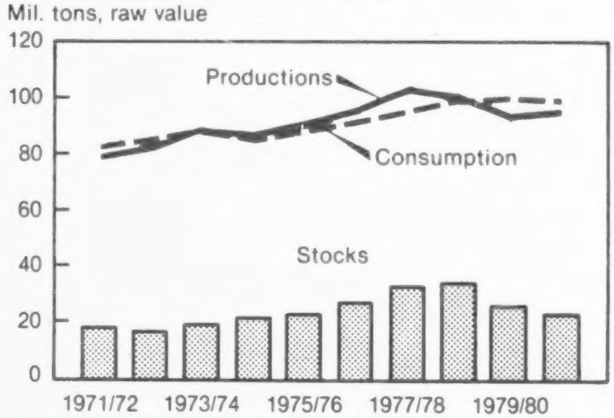
[1] Primary data source, Hawaiian Sugar Planters' Association.
[2] Commercial.
[3] Derived from production and value. State and island prices may not compute exactly due to rounding.

WORLD SUGAR

World Sugar
Production, Consumption and Stocks*



*Crop year September/August.
USDA

1980/81 Season Summary

World sugar production in 1980/81 is estimated at 86.1 million metric tons, raw value, 1.7 million tons above the previous season but still 4.9 and 6.4 million tons below 1977/78 and 1978/79, respectively.

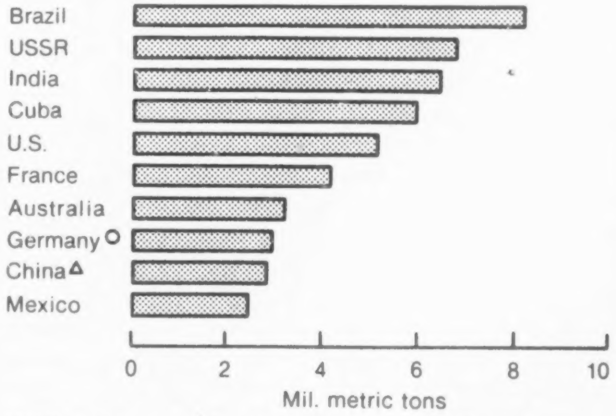
World sugar consumption, estimated at 89 million tons in 1980/81, fell about 1 million tons from the previous season. High sugar prices during most of this year, expanded use of HFCS, slow world economic growth, and rationing in some major consuming countries were factors in lowered use. Global production was short of consumption for the second straight season, reducing world sugar stocks by a 2-season total of 8.5 million tons. Prices in the year ahead will be increasingly sensitive to 1981/82 production prospects, because carryin stocks provide a limited cushion against unexpected shortfalls in production.

1981/82 Production Outlook

Early indications for the 1981/82 sugar crops suggest a substantial rise in world production, possibly exceeding the 1977/78 record of 92.5 million tons. Potential net increases add up to a total output between 90 and 94 million tons, up 5 to 9 percent from 1980/81. Much depends on European weather during the next 2 months, effects of the frost in Brazil, and Cuba's ability to recover from its rust and management problems.

July frosts in Brazil's Sao Paulo region (normally accounting for half of its total production) may reduce potential 1981/82 output somewhat below the goal of 8.6 million tons. Damage to the 1982/83 crop is probably higher.

World Sugar Production, 1980/81*
Ten Leading Countries



*Sep/Aug crop year. △Peoples Republic of China. ○West Germany.
USDA

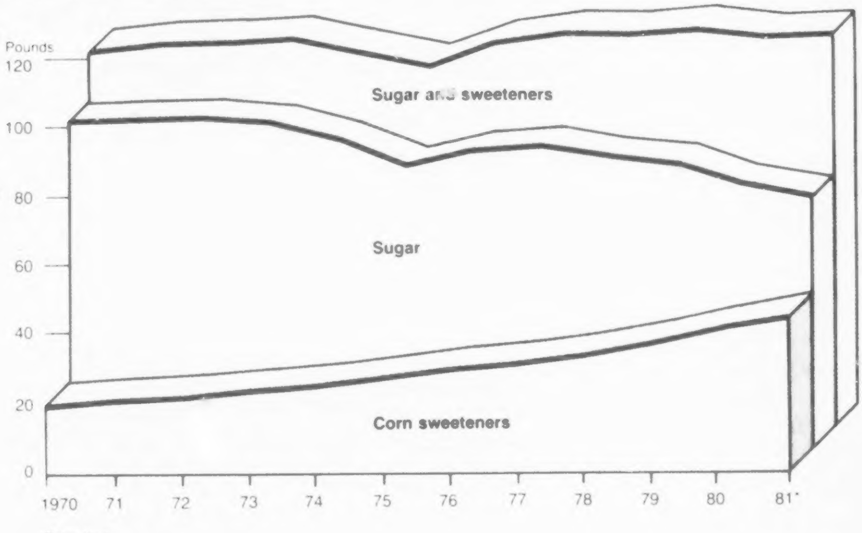
Source: Sugar and Sweetner, Outlook & Situation, Economic Research Service, United States Department of Agriculture, September 1981.

Corn Sweeteners: The Growing Challenge to Sugar's Markets

Corn sweeteners now account for about one-third of total domestic sugar/sweetener use, up from 17 percent 10 years ago.

Corn Sweeteners Cut Into Sugar's Markets

Annual per capita consumption



*Estimated

America's "sweet tooth" has been more demanding than ever in recent years, but this news brings little cheer to beet and cane sugar producers. They're caught in a double-bind, with stiff foreign competition on one side and a home-grown corn product on the other.

Of the two, the bigger challenge probably comes from the corn product, high fructose corn syrup. HFCS has been a major success since it was commercially introduced in the U. S. in 1967.

In 1970, per capita consumption of HFCS was only seven-tenths of a pound per year. It rose steadily to 19.1 pounds in 1980 and an estimated 23 pounds in 1981. Meanwhile, consumption of refined sugar declined from 101.7 pounds per capita to less than 80 pounds today.

Corn sweeteners now account for about one-third of total domestic sugar/sweetener use and forecasters say this figure could rise to about 43 percent of the market by 1985. HFCS has been steadily gaining on sugar's markets because it costs only half as much to make HFCS from corn as it takes to make sugar from cane or beets.

Present technology probably can't take corn sweeteners much further than a 50-percent share of the total traditional sugar market because HFCS can't do everything sugar can do.

However, the real problem for cane and beet producers will be on the table. In the short term foreign producers are trying to fill U. S. sugar bowls. In the long run, corn sweeteners may join the competition if technology finds an inexpensive way to crystallize the product.

Source: Farmline, Economic Research Service, United States Department of Agriculture, November 1981.

FLOWERS AND NURSERY PRODUCTS: Number of farms, number of flowers sold, and wholesale value, State of Hawaii, 1977-81

Kind of flower	Number of farms					Number sold					Wholesale value				
	1977	1978	1979	1980	1981	1977	1978	1979		1981	1977	1978	1979		1981
	------------Number------------										---------1,000 dollars---------				
Cut flowers: (000 dozens)															
Anthuriums 1/	165	187	180	228	235	1,549	1,925	2,111	2,532	2,104	3,372	5,017	5,568	6,878	5,295
Birds of paradise	16	21	16	27	30	35	29	13	27	28	49	44	33	70	77
Carnations	5	10	14	15	10	28	42	40	54	53	42	80	74	102	114
Chrysanthemums, other	5	4	5	4	3	12	8	10	7	11	49	39	43	27	43
Gingers, red	2/	2/	2/	2/	51	NA	NA	NA	NA	65	2/	2/	2/	2/	157
Gingers, other	3/20	3/24	3/27	3/35	4	NA	NA	NA	NA	NA	3/69	3/75	3/113	3/253	11
Roses	4	4	5	6	6	402	466	246	339	452	572	738	726	798	1,032
Others	28	36	36	49	68	NA	NA	NA	NA	NA	207	254	385	499	542
Proteas: (000 stems)															
Pincushion	8	11	10	12	14	163	461	819	703	518	82	165	195	181	183
Other	8	9	7	13	12	29	59	186	211	164	14	56	86	113	137
Chrysanthemums, pompon (000 bunches)	14	14	12	15	16	291	279	325	364	471	233	204	282	343	590
Cut orchids: (000 flowers)															
Cattleyas	21	21	16	30	31	41	54	51	88	63	34	28	30	70	63
Cymbidiums	20	16	18	17	16	753	746	628	448	420	249	273	245	150	199
Others 4/	47	22	15	19	13	NA	NA	NA	NA	NA	92	99	45	16	10
Dendrobium sprays (000 dozens)	5/23	24	26	41	51	27	31	44	70	83	110	136	192	336	431
Lei flowers: (Mil.flowers)															
Carnations	17	21	21	25	24	34.6	38.8	36.8	36.6	40.3	900	1,043	1,140	1,169	1,338
Vanda, Miss Joaquim	28	26	26	35	31	35.4	43.2	31.6	38.8	57.1	501	555	441	573	815
Plumerias	15	15	17	21	20	28.6	36.6	38.6	23.7	17.8	395	442	418	440	291
Tuberoses	4	3	3	5	6	16.1	19.5	21.1	32.0	30.8	280	339	401	684	668
Dendrobiums	5/	5/	9	21	25	5/	5/	2.8	6.6	8.5	5/	5/	73	175	244
Pikake (000 strands)	8	6	5	16	15	100	65	69	147	140	97	92	81	169	180
Cut foliage: (Mil. leaves)															
Ti leaves	31	31	35	62	57	13.0	15.0	11.5	14.5	10.1	230	247	285	332	266
Other greens	28	27	20	34	32	20.8	NA	NA	NA	NA	182	140	149	242	252
Potted plants: (000 pots)															
Anthuriums	6/	6/	6/	24	21	6/	6/	6/	129	98	6/	6/	6/	230	128
Chrysanthemums	10	9	9	11	11	177	176	189	192	205	433	435	523	607	689
Dendrobium orchids	7/	7/	7/	75	98	7/	7/	7/	269	291	7/	7/	7/	1,189	1,082
Other orchids 7/	75	62	76	67	68	256	259	460	245	327	800	908	1,508	1,038	1,560
Poinsettias	6/	6/	24	30	25	6/	6/	120	134	136	6/	6/	323	410	430
Potted foliage 1/ 8/	46	71	99	95	94	NA	NA	NA	NA	NA	2,450	3,441	4,052	5,190	7,268
Other potted plants 9/	75	49	73	70	83	NA	NA	NA	NA	NA	515	576	914	1,340	1,565
Ornamentals and trees	97	63	73	65	72	NA	NA	NA	NA	NA	997	811	1,027	1,181	851
Unfinished flower and foliage stock	5/	5/	54	36	42	NA	NA	NA	NA	NA	5/	5/	919	1,536	1,300
Other nursery products 10/	25	58	14	71	99	NA	NA	NA	NA	NA	1,049	1,221	507	1,347	1,788
TOTAL	11/550	11/600	11/580	11/640	11/680						14,003	17,458	20,778	27,668	29,599

NA = Not available. 1/ Totals may not equal totals in U. S. release, "Floriculture Crops" because of definition. 2/ Prior to 1981, included with other gingers. 3/ Including red gingers. 4/ Includes vanda hybrids, phalaenopsis, and cypripediums. 5/ Included in other nursery products figures. 6/ Included in other potted plant figures. 7/ Prior to 1980, dendrobium figures included in all potted orchid category now called other orchids. 8/ Potted foliage plants grown and sold for indoor or patio use. 9/ Includes potted foliage grown and sold for outdoor or landscaping purposes and other potted flowering plants. 10/ Includes bedding plants, plant rentals, and any other flowers or nursery products not elsewhere classified. 11/ Unduplicated count. Number for each individual flower or item is count of those having sales of that item during each year.

FLOWERS AND NURSERY PRODUCTS: Number of flowers sold and wholesale value, by islands, 1977-81

Kind of flower	Number sold					Wholesale value				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Hawaii									
CUT FLOWERS: (000 dozens)						--------1,000 dollars--------				
Anthuriums............	1,460	1,839	2,050	2,444	2,021	3,197	4,801	5,371	6,596	5,037
Gingers...............	NA	NA	NA	NA	NA	[4]20	[4]27	[4]25	[4]45	[4]51
CUT ORCHIDS: (000 flowers)										
Cattleyas.............	15	34	27	36	14	5	11	14	20	12
Cymbidiums............	753	744	628	448	417	249	272	245	150	197
LEI FLOWERS: (Mil. flowers)										
Vanda, Miss Joaquim....	32.6	41.0	29.2	36.5	55.3	470	525	398	534	786
CUT FOLIAGE: (Mil. leaves)										
Ti leaves.............	6.5	10.7	6.8	5.8	3.5	135	160	135	175	115
Other greens..........	10.0	NA	NA	NA	NA	75	85	87	150	150
POTTED PLANTS: (000 pots)										
Orchids...............	70	113	145	147	147	185	280	381	417	537
Foliage and other potted plants.........	NA	NA	NA	NA	NA	1,025	1,432	1,960	2,269	3,522
ORNAMENTALS AND TREES	NA	NA	NA	NA	NA	372	309	196	110	165
UNFINISHED STOCK AND CUTTINGS.............	NA	NA	NA	NA	NA	[1]	[1]	326	661	747
ALL OTHER FLOWERS AND NURSERY PRODUCTS[2]...	NA	NA	NA	NA	NA	663	725	642	962	1,177
TOTAL.............						6,396	8,627	9,780	12,089	12,496
	Kauai									
						-------1,000 dollars-------				
CUT FLOWERS: (000 dozens)										
Anthuriums............	11	5	8	5	5	20	11	20	11	10
ALL OTHER FLOWERS AND NURSERY PRODUCTS[2]...	NA	NA	NA	NA	NA	150	268	133	604	730
TOTAL						170	279	153	615	740
	Maui									
						-------1,000 dollars-------				
CUT FLOWERS:										
Carnations (000 dozens)...	16	41	28	53	53	18	77	50	102	114
Chrysanthemums, pompon (000 bunches)...........	34	38	73	61	45	26	33	64	65	51
Proteas: (000 stems)										
Pincushion..........	163	437	798	662	436	81	156	183	167	154
Other...............	29	59	185	210	163	14	55	81	112	135
LEI FLOWERS: (Mil. flowers)										
Carnation, heads.......	33.0	36.9	34.0	35.7	38.8	868	1,003	1,137	1,142	1,291
POTTED PLANTS: (000 pots)										
Potted foliage.........	NA	NA	NA	NA	NA	[1]	[1]	[1]	[1]	525
ALL OTHER FLOWERS AND NURSERY PRODUCTS[2]...	NA	NA	NA	NA	NA	689	1,143	1,384	2,754	1,709
TOTAL						1,696	2,467	2,899	4,342	3,979

See footnotes at end of table.

Continued

FLOWERS AND NURSERY PRODUCTS: Number of flowers sold and wholesale value, by islands, 1977-81 -- Continued

Kind of flower	Number sold					Wholesale value				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Oahu									
						-------1,000 dollars-------				
CUT FLOWERS: (000 dozens)										
Anthuriums	75	79	61	82	**78**	150	203	176	269	**246**
Gingers, red	NA	NA	NA	NA	**38**	3/	3/	3/	3/	**104**
Gingers, other	NA	NA	NA	NA	**NA**	4/48	4/47	4/87	4/206	**10**
Chrysanthemums, pompon (000 bunches)	256	240	252	304	**332**	205	169	218	278	**381**
CUT ORCHIDS:										
Cattleyas (000 flowers)	24	18	23	50	**45**	28	16	16	49	**46**
Dendrobium sprays (000 dozens)	26	22	28	54	**65**	95	101	132	274	**354**
LEI FLOWERS: (Mil. flowers)										
Plumerias	21.3	20.4	18.0	15.5	**4.0**	300	302	246	269	**91**
Tuberoses	16.1	19.5	21.1	5/	**5/**	280	339	401	5/	**5/**
Vanda, Miss Joaquim	2.2	1.6	1.7	1.6	**1.2**	25	24	34	28	**22**
Dendrobiums	1/	1/	2.8	6.4	**8.5**	1/	1/	72	169	**235**
Pikake (000 strands)	100	63	69	144	**137**	97	89	81	163	**174**
CUT FOLIAGE: (Mil. leaves)										
Ti leaves	6.4	4.2	5.4	8.2	**6.5**	93	85	150	158	**149**
Other greens	9.6	NA	NA	NA	**NA**	95	50	62	90	**100**
POTTED PLANTS: (000 pots)										
Chrysanthemums	43	33	41	41	**50**	108	77	109	152	**150**
Orchids	165	116	272	310	**438**	560	523	975	1,296	**1,953**
Poinsettias	6/	6/	84	90	**93**	6/	6/	202	241	**254**
Potted foliage	NA	NA	NA	NA	**NA**	1,490	1,937	2,034	3,428	**4,173**
Other potted plants	NA	NA	NA	NA	**NA**	290	283	515	86	**147**
ORNAMENTALS AND TREES	NA	NA	NA	NA	**NA**	440	135	587	529	**340**
UNFINISHED STOCK AND CUTTINGS	NA	NA	NA	NA	**NA**	1/	1/	576	740	**1,933**
ALL OTHER FLOWERS AND NURSERY PRODUCTS 2/	NA	NA	NA	NA	**NA**	1,437	1,705	1,273	2,217	**1,522**
TOTAL						5,741	6,085	7,946	10,642	**12,384**

NA = Not available.

1/ Included in all other flower and nursery product category.

2/ Only selected items are shown separately. All other cut and lei flowers, potted plants, nursery products, plant rental, etc. for the islands are included in this all other category.

3/ Prior to 1981, included with other gingers.

4/ Including red gingers.

5/ Not estimated separately to avoid disclosure of individual operations.

6/ Included in other potted plants category.

FLOWERS AND NURSERY PRODUCTS: Number of farms and growing area used for flowers and nursery products, by islands, 1978-81

Year	Hawaii	Kauai	Maui	Oahu	State
NUMBER OF FARMS--Unduplicated					
1978........	300	25	95	180	600
1979........	290	25	95	170	580
1980........	300	25	95	220	640
1981........	**330**	**25**	**85**	**240**	**680**
GREENHOUSE--1,000 square feet [1/]					
1978........	700	16	130	575	1,421
1979........	750	70	200	605	1,625
1980........	870	32	200	651	1,753
1981........	**1,202**	**38**	**280**	**552**	**2,072**
ARTIFICIAL SHADE STRUCTURE--1,000 square feet					
1978........	10,750	84	390	2,650	13,874
1979........	13,450	165	450	2,885	16,950
1980........	15,352	69	652	3,494	19,567
1981........	**18,529**	**63**	**734**	**3,742**	**23,068**
NATURAL SHADE AREA--Acres					
1978........	125	2	3	10	140
1979........	110	1	2	3	116
1980........	119	4	--	7	130
1981........	**116**	**6**	**--**	**11**	**133**
OPEN FIELD--Acres					
1978........	325	15	170	202	712
1979........	330	20	190	230	770
1980........	316	16	254	272	858
1981........	**331**	**19**	**255**	**290**	**895**
TOTAL AREA--Acres					
1978........	713	19	185	286	1,203
1979........	766	26	207	313	1,312
1980........	807	22	274	374	1,477
1981........	**900**	**27**	**278**	**400**	**1,605**

-- = Less than 500 square feet.

[1/] Glass or glass substitute structure.

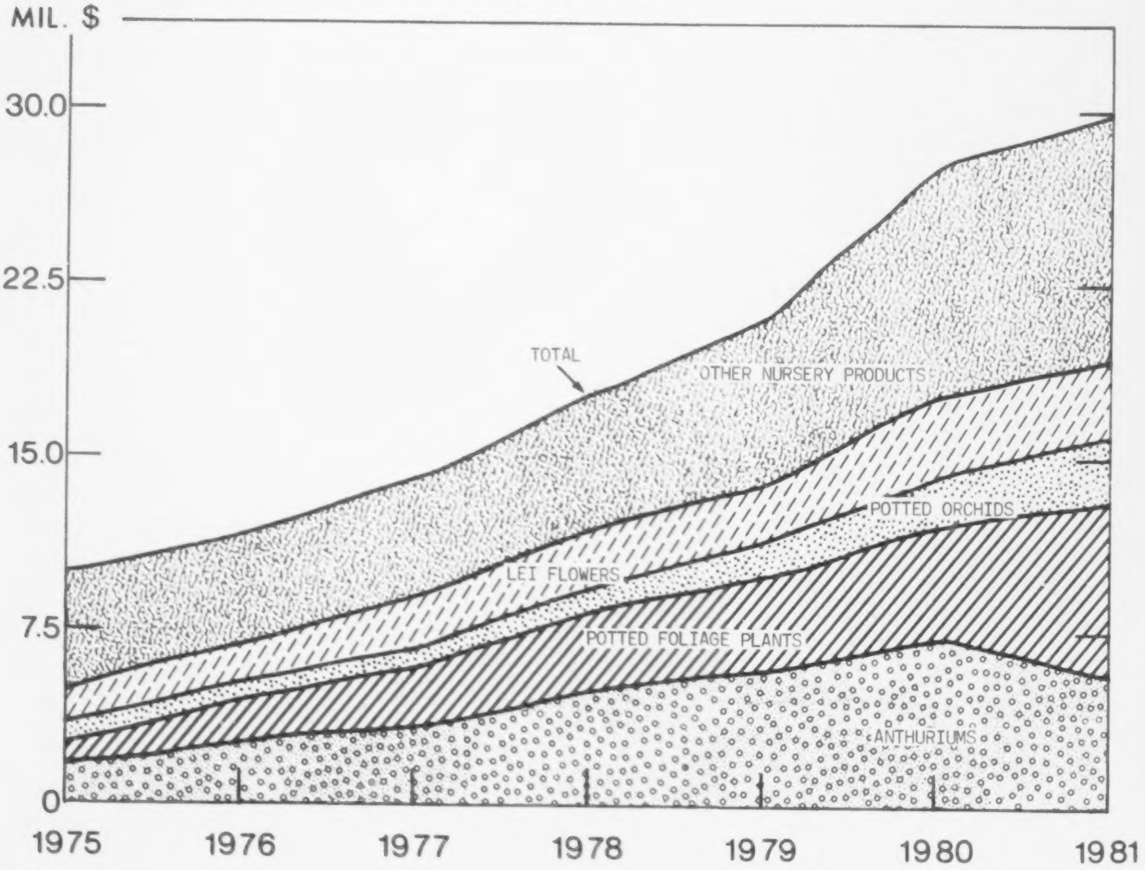
FLOWERS AND NURSERY PRODUCTS: Area used for production 1981, State

Area used for	Greenhouse-Glass or glass substitute	Artificial shade-Saran, lath, etc.	Natural shade-Hapu'u citrus, etc.	Open field
	----1,000 square feet----		----------Acres----------	
Anthuriums...........	14	15,696	106	0
Dendrobium orchids..	160	1,019	2	--
All other orchids 1/..	344	353	9	42
Potted foliage.......	571	3,421	3	23
Poinsettias..........	116	88	--	3
Proteas..............	5	1	--	108
All other flowers and nursery products	862	2,490	13	719
TOTAL.............	2,072	23,068	133	895

-- = Less than 500 square feet.

1/ Includes vandas.

VALUE OF FLOWERS AND NURSERY PRODUCTS, STATE OF HAWAII, 1975-1981



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Area used for anthurium production, by islands, 1978-81

Year	Hawaii	Kauai	Maui	Oahu	State
			1,000 square feet		
			ARTIFICIAL SHADE STRUCTURE		
1978	9,050	39	5	450	9,544
1979	11,150	55	5	460	11,670
1980	12,646	30	3	426	13,105
1981	**15,300**	**21**	**3**	**386**	**15,710**
			NATURAL SHADE AREA		
1978	4,661	0	0	44	4,705
1979	4,574	0	0	44	4,618
1980	4,879	44	0	44	4,967
1981	**4,574**	**44**	**0**	**--**	**4,618**
			TOTAL ARTIFICIAL AND NATURAL SHADE		
1978	13,711	39	5	494	14,249
1979	15,724	55	5	504	16,288
1980	17,525	74	3	470	18,072
1981	**19,874**	**65**	**3**	**386**	**20,328**

-- = Less than 500 square feet.

ANTHURIUMS: Mainland and foreign shipments from the Island of Hawaii, 1977-81

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
							1,000 dozens						
Mainland:													
1977	26.6	29.2	28.2	32.5	32.0	29.0	32.3	32.9	35.8	33.4	32.8	44.1	388.8
1978	31.7	31.8	30.4	33.0	40.0	31.1	33.5	36.9	35.6	37.7	35.0	53.7	430.4
1979	34.5	39.7	31.7	27.2	33.1	32.7	33.2	30.4	31.5	36.0	34.3	49.4	413.7
1980	28.2	35.6	34.2	39.6	41.7	41.9	38.3	40.5	43.2	46.9	40.0	53.3	483.4
1981	32.7	44.9	36.9	45.1	44.0	41.4	42.3	43.4	46.1	45.4	44.2	61.3	527.7
Foreign:													
1977	40.0	37.1	47.5	63.9	60.5	70.9	75.6	78.7	97.4	88.0	82.6	77.6	819.8
1978	54.5	56.0	75.7	73.4	92.0	96.1	88.3	98.2	106.5	115.3	113.0	96.5	1,065.5
1979	67.4	65.8	92.3	106.0	120.5	99.8	106.9	132.8	109.7	145.2	138.4	114.2	1,299.0
1980	95.4	80.2	102.4	112.3	122.8	92.9	127.5	122.1	133.6	185.7	122.0	134.0	1,430.9
1981	105.2	81.6	85.9	112.9	87.4	96.5	131.4	98.5	106.3	129.2	94.7	124.6	1,254.2
Total shipments:													
1977	66.6	66.3	75.7	96.4	92.5	99.9	107.9	111.6	133.2	121.4	115.4	121.7	1,208.6
1978	86.2	87.8	106.1	106.4	132.0	127.2	121.8	135.1	142.1	153.0	148.0	150.2	1,495.9
1979	101.9	105.5	124.0	133.2	153.6	132.5	140.1	163.2	141.2	181.2	172.7	163.6	1,712.7
1980	123.6	115.8	136.6	151.9	164.5	134.8	165.8	162.6	176.8	232.6	162.0	187.3	1,914.3
1981	137.9	126.5	122.8	158.0	131.4	137.9	173.7	141.9	152.4	174.6	138.9	185.9	1,781.9

MAINLAND ANTHURIUM SHIPMENTS: Percent of flowers sold, by size, 1977-81

Year	Miniature	Small	Medium	Large	Extra-large
1977.........	21	28	29	21	1
1978.........	19	28	31	21	1
1979.........	19	25	31	23	2
1980.........	22	26	30	21	1
1981.........	20	25	31	22	2

ANTHURIUMS: Foreign shipments, by destination, 1977-81

Destination	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 dozens												
Australia:													
1977..............	1.6	2.9	2.8	5.9	3.8	5.2	5.6	4.2	3.8	2.7	3.0	3.7	45.2
1978..............	1.4	2.7	3.5	3.3	5.5	4.4	4.4	4.8	4.6	2.9	3.6	4.4	45.5
1979..............	1.2	2.5	4.4	4.7	6.3	4.6	4.4	5.1	3.6	3.5	4.1	3.9	48.3
1980..............	2.3	2.2	2.3	3.9	6.2	3.9	5.1	4.2	4.0	4.5	2.9	6.3	47.8
1981..............	2.5	3.8	3.8	6.3	5.0	4.0	4.0	3.7	3.5	3.9	3.0	4.2	47.7
Italy:													
1977..............	16.6	16.9	23.2	27.1	23.2	27.0	28.8	21.4	34.3	33.8	29.4	31.9	313.5
1978..............	23.4	22.9	31.9	28.2	31.4	33.7	31.1	30.5	39.2	53.8	41.6	33.9	401.6
1979..............	27.1	23.6	33.9	33.2	34.9	37.0	36.3	44.4	39.9	64.4	53.6	46.4	474.7
1980..............	42.9	36.8	48.9	48.6	50.7	32.3	53.8	38.5	54.4	99.6	49.3	52.2	608.0
1981..............	49.2	37.3	37.8	46.8	25.2	24.9	33.8	28.7	39.3	64.1	33.2	40.1	460.4
Japan:													
1977..............	2.5	3.6	4.7	7.1	9.4	9.7	7.4	11.4	9.7	12.5	13.1	11.4	102.6
1978..............	3.7	4.8	8.8	9.7	12.4	14.0	15.2	16.6	16.3	16.2	16.7	15.5	149.9
1979..............	9.5	8.4	10.2	17.3	25.3	9.1	29.5	31.6	23.8	29.6	29.0	25.7	249.0
1980..............	14.2	8.9	16.1	15.5	12.7	20.4	37.9	49.5	42.4	41.1	34.3	36.3	329.3
1981..............	17.9	9.3	14.8	16.7	33.6	55.5	83.3	57.1	54.3	45.4	35.8	44.3	468.0
Switzerland:1/													
1978..............	.2	1.4	3.2	2.9	3.1	2.1	.1	3.2	3.9	4.4	6.4	5.6	36.5
1979..............	6.1	6.9	11.3	9.6	8.6	4.2	.6	3.6	5.2	6.3	10.0	8.7	81.1
1980..............	11.0	11.3	9.5	12.8	10.4	8.7	6.7	8.5	8.9	13.5	11.2	14.9	127.4
1981..............	10.7	11.9	9.5	15.1	9.1	6.2	3.5	3.9	4.8	10.3	11.5	14.3	110.8
West Germany:													
1977..............	18.8	13.2	16.3	23.0	22.9	27.8	30.9	40.3	48.1	37.6	35.4	30.1	344.5
1978..............	24.1	21.8	26.8	27.6	37.9	40.5	37.4	42.1	42.1	37.7	43.5	36.5	418.0
1979..............	22.3	22.1	30.2	38.4	43.4	44.6	35.6	47.7	37.0	40.9	41.3	29.1	432.6
1980..............	24.5	20.5	25.3	29.3	41.0	26.0	23.0	21.0	23.4	24.7	21.4	19.8	299.9
1981..............	21.9	16.2	15.9	22.9	11.2	4.1	3.7	3.0	2.7	3.4	8.7	16.3	130.0
All other:													
1977..............	.5	.5	.5	.8	1.2	1.2	2.9	1.4	1.5	1.4	1.7	.5	14.0
1978..............	1.7	2.4	1.5	1.7	1.7	1.4	.1	1.0	.4	.3	1.3	.5	14.0
1979..............	1.2	2.3	2.3	2.8	2.0	.3	.5	.4	.2	.5	.4	.4	13.3
1980..............	.5	.5	.3	2.2	1.8	1.6	1.0	.4	.5	2.3	2.9	4.5	18.5
1981..............	3.0	3.1	4.1	5.1	3.3	1.8	3.1	2.1	1.7	2.1	2.5	5.4	37.3

1/ Prior to 1978, included with all other.

DENDROBIUM ORCHIDS: Sales and value, 1977-81

Year	Lei flowers		Cut sprays		Potted plants				Total value
					In bud/bloom		Community pots		
	Number sold	Value	Number sold	Value	Number sold	Value	Number sold	Value	
	Million blooms	1,000 dollars	1,000 dozens	1,000 dollars	1,000 pots	1,000 dollars	1,000 pots	1,000 dollars	1,000 dollars
					STATE1/				
1977			27	110					2/
1978			31	136					2/
1979	2.8	73	44	192					2/
1980	6.6	175	70	336	227	1,003	42	186	1,700
1981	8.8	244	83	432	213	781	79	301	1,758
					OAHU				
1977									2/
1978									2/
1979	2.8	73	28	132					2/
1980	6.4	169	54	274	72	259	42	182	884
1981	8.5	235	65	354	117	461	71	286	1,336

1/ Hawaii, Kauai, and Maui combined with State total to avoid disclosure of individual operations.

2/ Prior to 1979 lei flower use was included in other lei flower figures and prior to 1980 potted dendrobiums were included in the total potted orchid figures as shown in the "Flowers and Nursery Products Annual Summary".

DENDROBIUM ORCHIDS: Production area, 1981 with 1982 intentions

Type of shade	Used in 1981			Intentions for 1982			
	Cut or lei flowers	Potted plants	Total	Cut or lei flowers	Potted plants	Total	Percent of 1981
	1,000 square feet						
	STATE1/						
Glass or glass substitute....	103	57	160	NA	NA		
Saran..........	617	402	1,019	NA	NA		
Natural shade and open field	63	17	80	NA	NA	1,448	
Total........	783	476	1,259	891	557	1,448	115
	OAHU						
Glass or glass substitute....	75	21	96	NA	NA		
Saran..........	530	270	800	NA	NA		
Natural shade and open field	44	13	57	NA	NA		
Total........	649	304	953	618	352	970	102

1/ Hawaii, Kauai, and Maui combined in State total to avoid disclosure of individual operations.

DENDROBIUM ORCHIDS: Percent of cut sprays sold by quarter

Year	January-March	April-June	July-September	October-December
	Percent			
1980.....	14	23	34	29
1981.....	12	23	37	28

POINSETTIAS: Number of growers, pots sold by size, and value, 1979-81

Year	Growers	Pots sold by size				Value
		4 inches and under	5-6½ inches	All other sizes[1]	Total	
	Number					Dollars
	STATE					
1979......	24	23,000	2/97,000	--	120,000	323,000
1980......	30	25,000	95,000	14,000	134,000	410,000
1981......	25	20,000	109,500	7,000	136,500	430,000
	OAHU					
1979......	15	3/	3/	3/	84,000	202,000
1980......	17	3/	3/	3/	90,000	241,000
1981......	16	3/	3/	3/	93,000	254,000

-- = Not applicable.

1/ Includes hanging baskets.

2/ Includes all pots over 6 inches.

3/ Not shown separately to avoid disclosure of individual operations.

POINSETTIAS: Percent of flowers grown by type of growing area

Year	Saran	Glass or glass substitute	Open field
1979......	16	43	41
1980......	7	49	44
1981......	28	46	26

POINSETTIAS: Percent of flowers grown by varieties

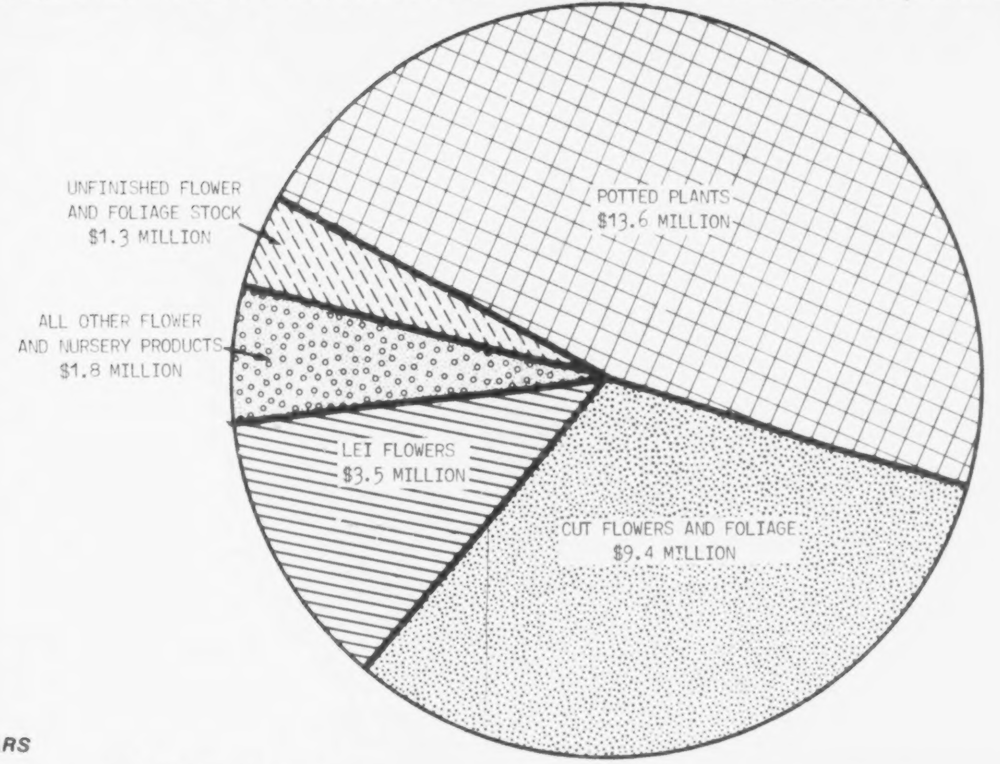
Year	C-1	V-10	V-14	Others
1979........	41	23	11	25
1980........	26	24	32	18
1981........	36	33	10	21

POINSETTIAS: 1982 intentions, with comparisons

Year	Grower intentions spring of year	Pots set[1]	Pots sold
	Number		
1979......	NA	133,000	120,000
1980......	160,000	140,000	134,000
1981......	152,000	161,000	136,500
1982......	156,000		

1/ Includes small pots eventually used for hanging baskets and counted as only one pot.

VALUE OF 1981 FLOWER AND NURSERY PRODUCTS, STATE OF HAWAII



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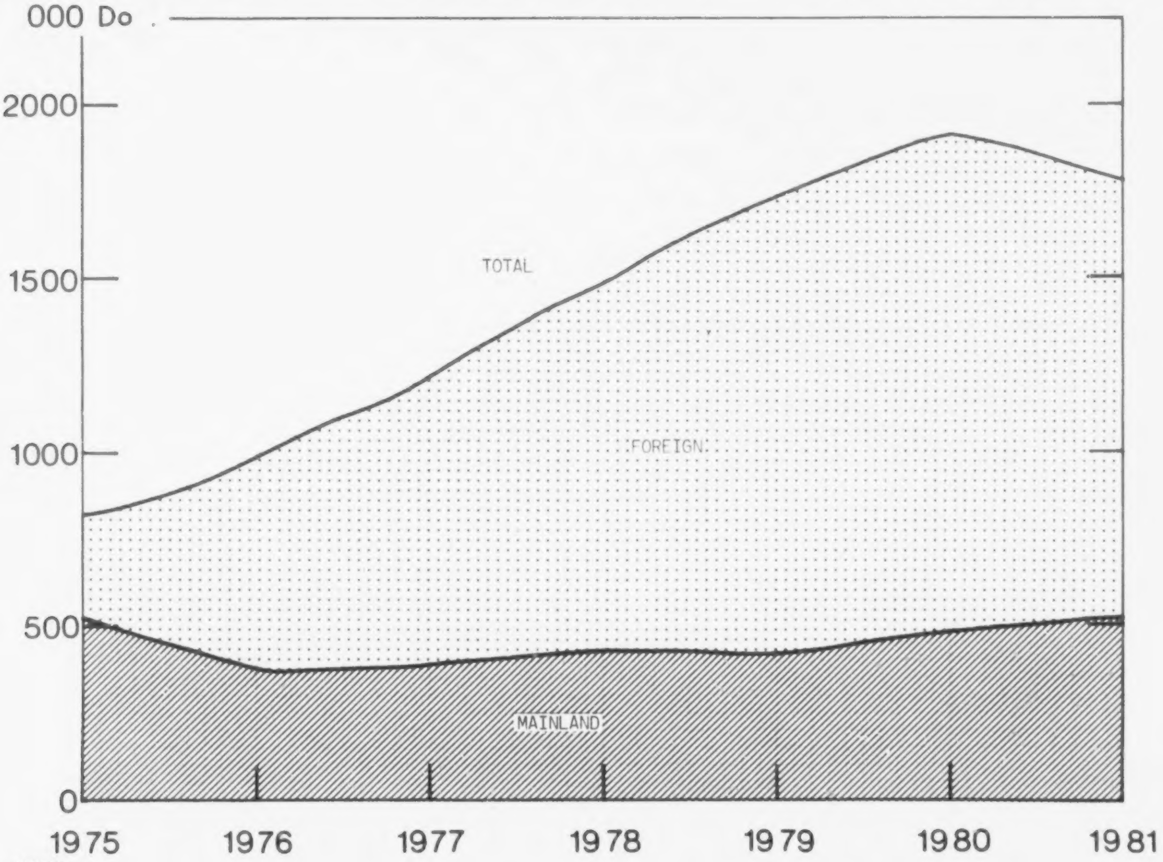
ANTHURIUMS: Out-of-State Sales From Island of Hawaii, 1975-81



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Out-of-State sales of flowers and nursery products, State of Hawaii, 1977-81

Kind of flower	1977	1978	1979	1980	1981
			1,000 dollars[1]		
CUT FLOWERS:					
Anthuriums	3,300	5,010	5,696	6,592	**5,328**
Birds of paradise	50	95	64	95	**90**
Gingers	40	75	85	117	**110**
Proteas	NA	150	207	235	**256**
Others	257	147	202	111	**97**
ORCHIDS:					
Cattleyas	25	25	20	24	**52**
Cymbidiums	200	375	170	71	**98**
Dendrobiums	60	125	115	124	**162**
Vandas [2]	320	265	104	75	**125**
Others	10	8	14	21	**8**
Potted orchid plants	525	600	1,020	1,282	**1,319**
FOLIAGE:					
Ti leaves	150	165	198	206	**150**
Other cut greens	40	90	146	313	**250**
Potted foliage plants	1,375	2,150	2,675	3,311	**5,838**
ORNAMENTALS AND TREES	350	250	185	80	**157**
UNFINISHED AND OTHER POTTED PLANTS	450	860	1,010	1,425	**1,025**
TOTAL	7,152	10,390	11,911	14,082	**15,065**

NA = Not available.

[1] Based on F.O.B. island value. Includes both wholesale and retail sales. Does not include sales of cut flowers, lei, etc. purchased within the State and hand carried out.

[2] Hybrid and Miss Joaquim.

DENDROBIUM ORCHIDS: Out-of-State sales, 1980-81

Year	Cut sprays		Potted plants		Total value
	Number	Value	Number	Value	
	Dozens	Dollars	Number	Dollars	Dollars
1980	18,560	123,800	79,980	380,390	504,190
1981	28,600	162,400	68,600	264,000	426,400

COFFEE: Number of farms, acreage, yield, marketings, price, and value, State of Hawaii, 1977-81[1]

Year[2]	Farms	Total acreage in crop	Acreage harvested	Yield per harvest acre	Marketings (parchment)	Price per pound (parchment)	Value of sales
	Number	---1,000 acres---		----1,000 pounds----		Cents	1,000 dollars
1977-78..	780	2.4	2.0	1.1	2,270	138.0	3,133
1978-79..	750	2.3	1.9	0.9	1,680	126.0	2,117
1979-80..	700	2.1	1.8	1.2	2,190	143.0	3,132
1980-81..	650	1.9	1.7	0.9	1,440	160.0	2,304
1981-82..	**625**	**1.8**	**1.7**	**1.3**	**2,240**	**200.0**	**4,480**

[1] State production all on island of Hawaii.
[2] Harvesting normally begins in September and extends to the early part of the following year.

TARO: Number of farms, acreage, marketings, price, and value, by islands, 1977-81

Year	Farms	Acreage in crop[1]	Marketings	Farm price	Value of sales
	Number	Acres	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1977........	129	470	7,870	12.7	999
1978........	132	450	7,680	13.4	1,029
1979........	121	405	6,640	16.4	1,089
1980........	122	320	6,400	20.0	1,280
1981........	**123**	**340**	**6,100**	**21.4**	**1,305**
			HAWAII		
1977........	48	145	1,665	14.7	245
1978........	47	110	1,550	17.0	264
1979........	41	70	1,220	19.6	239
1980........	41	30	700	23.1	162
1981........	**40**	**45**	**450**	**23.1**	**104**
			KAUAI		
1977........	48	200	4,820	12.2	588
1978........	52	210	4,920	12.5	615
1979........	49	205	4,330	14.8	641
1980........	50	210	4,550	19.0	865
1981........	**50**	**210**	**4,450**	**21.0**	**934**
			MAUI/MOLOKAI/OAHU [2]		
1977........	33	125	1,385	12.0	166
1978........	33	130	1,210	12.4	150
1979........	31	130	1,090	19.1	209
1980........	31	80	1,150	22.0	253
1981........	**33**	**85**	**1,200**	**22.3**	**267**

[1] Survey conducted in November each year.
[2] Maui/Molokai and Oahu combined to avoid disclosure of individual operations.

MACADAMIA NUTS: Number of farms, acreage, yield, marketings, price, and value, by islands, 1977-81

Crop year[1]	Farms	Acreage[2]		Yield per acre (bearing)	Marketings (in shell)[3]	Average moisture		Farm price	Value of sales
		In crop	Bearing			Entire crop	Purchases		
	Number	----Acres----		---1,000 pounds---		---Percent---		Cents per pound	1,000 dollars
					STATE[4]				
1977..	456	9,895	6,300	3.1	19,680	NA	NA	40.8	8,029
1978..	464	10,200	9,200	2.3	20,980	NA	NA	53.8	11,287
1979..	465	11,400	9,600	2.8	26,660	21.1	18.7	62.9	16,769
1980..	465	13,200	10,000	3.3	33,390	20.0	20.7	72.4	24,174
1981..	**465**	**13,700**	**10,000**	**3.3**	**33,360**	**19.8**	**16.1**	**79.3**	**26,454**
					HAWAII				
1977..	451	9,840	6,305	3.1	19,590	NA	NA	40.8	7,992
1978..	459	10,120	9,180	2.3	20,890	NA	NA	53.8	11,239
1979..	460	11,115	9,600	2.8	26,570	NA	NA	62.9	16,712
1980..	460	12,210	9,950	3.2	33,270	NA	NA	72.4	24,071
1981..	**460**	**12,500**	**9,950**	**3.3**	**33,240**	**NA**	**NA**	**79.3**	**26,355**
					KAUAI/MAUI/OAHU[5]				
1977..	5	55	43	2.1	90	NA	NA	40.8	37
1978..	5	50	40	1.8	90	NA	NA	53.8	48
1979..	5	250	48	1.9	90	NA	NA	62.9	57
1980..	5	1,190	50	2.4	120	NA	NA	86.0	103
1981..	**5**	**1,220**	**50**	**2.4**	**120**	**NA**	**NA**	**82.5**	**99**

NA = Not available.

[1] Year ends June 30 of following year.

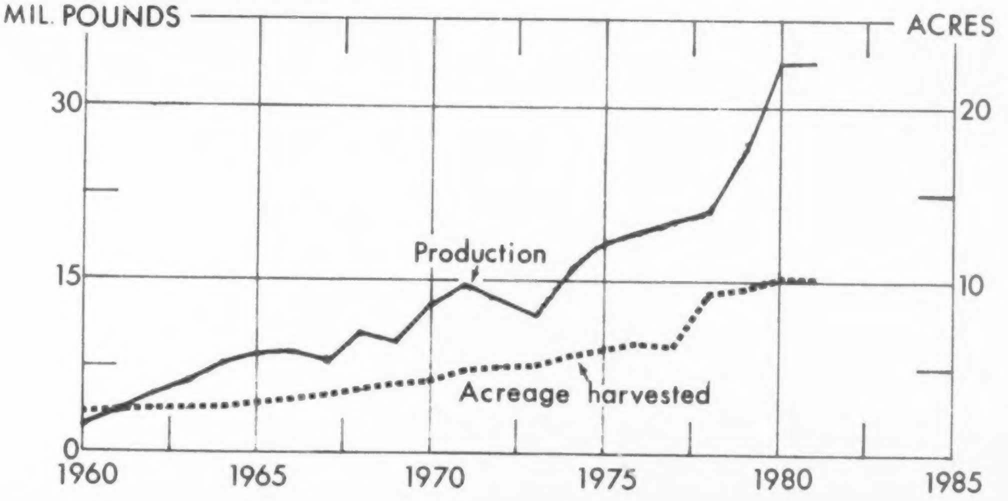
[2] At end of year.

[3] Includes home use.

[4] Sum of island estimates may not add to State total due to rounding.

[5] Kauai and Maui combined with Oahu to avoid disclosure of individual operations.

MACADAMIA NUTS: Acreage and Production, State of Hawaii, 1960-81



HARS

PINEAPPLES: Number of farms, acreage, production, disposition, price, and value, State of Hawaii, 1975-81

Year	Farms	Acreage used for crop	Production (fresh weight)	Disposition		Farm price		Value of production (fresh weight)
				Processed (fresh weight)	Fresh market	Processed[1]	Fresh market[2]	
	Number	1,000 acres	1,000 tons			Dollars per ton		Thousand dollars
1975...	20	50.0	720	657	63	48	160	41,616
1976...	17	48.0	680	611	69	63	210	52,983
1977...	17	45.0	690	607	83	67	260	62,249
1978...	18	43.0	675	580	95	58	310	63,090
1979...	18	44.0	681	587	94	67	320	69,409
1980...	18	43.0	657	556	101	76	340	76,596
1981...	18	41.0	636	519	117	85	390	89,745

1/ Estimate to reflect value of fresh fruit delivered processing plant door.
2/ Estimate to reflect value at wholesale establishments for local sales and shipper dock for Mainland and foreign sales.

PINEAPPLES: Processor production, fresh sales, and value, State of Hawaii, 1975-81

Year	Processor production[1]				Fresh market sales		
	Canned fruit (24/2½-45 lb. cases)	Canned juice (24/2½-42.5 lb. cases)	Frozen concentrate (24/2½-42.5 lb. cases)	Value[2] Canned fruit and juices	Quantity Local	Quantity Shipped out-of State[3]	Value[4]
	1,000 cases			Million dollars	1,000 tons		Thousand dollars
1975...	8,200	4,800	520	126.6	15.3	47.4	10,080
1976...	8,270	5,600	320	130.0	18.2	50.3	14,490
1977...	8,490	5,750	270	140.0	23.1	59.6	21,580
1978...	7,620	5,760	265	133.4	23.0	71.8	29,450
1979...	7,470	6,010	280	176.3	24.5	69.9	30,080
1980...	6,940	6,410	215	[5]192.2	27.3	73.7	34,340
1981...	6,830	6,320	200	172.0	25.8	91.1	45,590

1/ Pineapple Growers Association of Hawaii (year beginning June 1 prior to 1979).
2/ Value of canned fruit and juices and byproducts shipped out-of-State and sold within State.
3/ Market News Service, Hawaii Department of Agriculture. Includes all destinations.
4/ Value FAS shipping point for outshipments, delivered wholesalers local sales.
5/ Revised.

PINEAPPLES: Outshipments of fresh pineapples, State of Hawaii, 1975-81

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
						1,000 pounds							
1975....	10,180	8,498	7,999	10,047	8,762	8,208	12,251	9,593	2,156	4,804	5,023	6,840	94,375
1976....	5,081	5,825	8,378	9,966	15,341	16,643	16,853	9,004	2,576	29	2,562	8,090	100,494
1977....	8,204	5,037	10,837	13,662	16,054	15,073	18,794	7,723	1,327	4,172	6,221	10,976	119,198
1978....	10,709	10,438	12,639	14,201	16,606	17,726	15,742	14,646	3,458	7,923	10,804	8,583	143,475
1979....	9,489	12,772	15,104	13,164	16,801	13,818	12,718	11,475	5,285	8,968	11,109	7,971	138,674
1980....	9,179	11,748	13,671	14,660	15,386	13,595	13,867	10,655	10,075	12,796	12,338	9,493	147,463
1981....	13,290	12,411	14,706	18,021	16,906	18,978	22,599	10,053	12,512	15,036	13,931	13,662	182,102

Source of outshipment data: Market News Service, Hawaii Department of Agriculture.

BANANAS: Number of farms, acreage, yield, production, price, and value, by islands, 1977-81

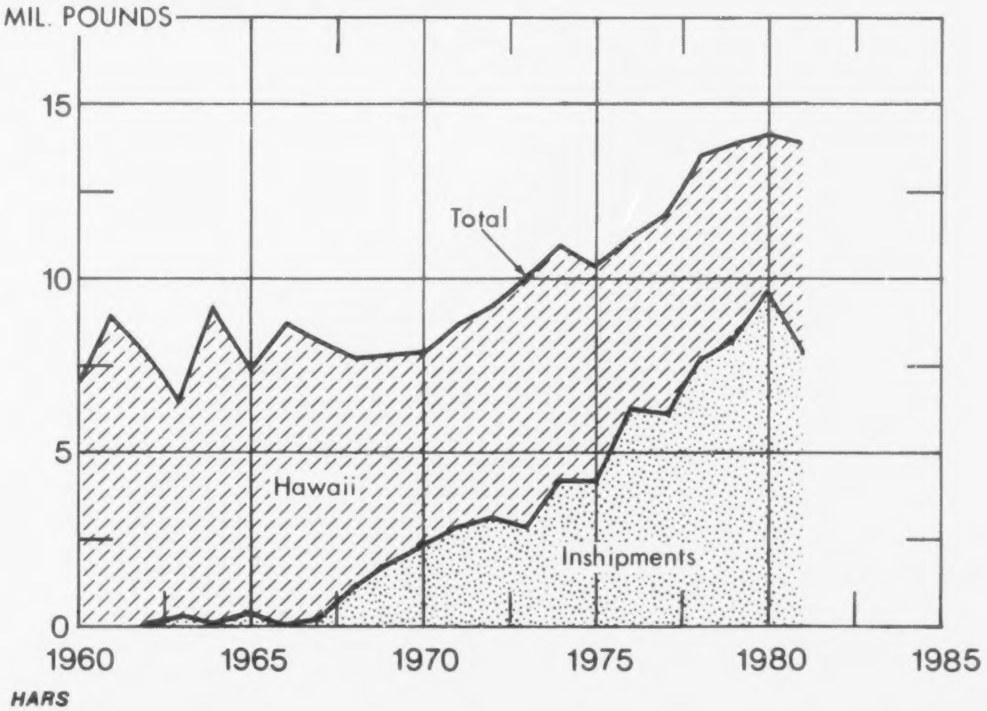
Year	Farms	Acreage		Yield per acre (harvested)	Production	Farm price	Value of sales
		In crop	Harvested				
	Number	Acres		1,000 pounds		Cents per pound	1,000 dollars
				STATE[1]			
1977..	153	610	550	10.5	5,800	15.6	905
1978..	147	640	580	9.8	5,700	18.5	1,055
1979..	148	690	630	8.8	5,550	20.5	1,138
1980..	159	730	580	7.9	4,600	23.9	1,099
1981..	**152**	**760**	**650**	**9.2**	**6,000**	**25.7**	**1,542**
				HAWAII			
1977..	23	125	105	6.9	725	12.5	91
1978..	19	140	110	10.1	1,110	16.1	179
1979..	19	140	120	11.5	1,400	17.8	249
1980..	25	160	105	14.9	1,560	18.9	295
1981..	**17**	**140**	**130**	**16.1**	**2,090**	**20.0**	**418**
				KAUAI			
1977..	22	75	45	10.8	485	12.9	63
1978..	21	60	45	10.4	470	15.0	70
1979..	23	60	45	12.1	600	17.2	103
1980..	24	70	45	17.1	770	21.6	166
1981..	**26**	**75**	**60**	**16.7**	**1,000**	**23.4**	**234**
				MAUI/MOLOKAI			
1977..	13	20	20	6.5	130	16.7	22
1978..	12	20	20	6.0	120	18.4	22
1979..	13	30	20	4.0	120	21.2	25
1980..	12	30	25	7.6	190	24.7	47
1981..	**15**	**55**	**35**	**5.7**	**200**	**24.8**	**50**
				OAHU			
1977..	95	390	380	11.7	4,445	16.4	729
1978..	95	420	405	9.9	4,000	19.6	784
1979..	93	460	445	6.1	3,430	22.2	761
1980..	98	470	405	5.1	2,080	28.4	591
1981..	**94**	**490**	**425**	**6.4**	**2,710**	**31.0**	**840**

[1] Island totals may not add to State totals due to rounding.

BANANAS: Monthly production, total acreage in crop, and total acreage harvested, by varieties, and price, State of Hawaii, 1977-81

Year	Production													Acreage	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average	In crop	Harvested
	1,000 pounds													Acres	
	BRAZILIAN (APPLE)														
1977..	152	145	162	148	168	175	173	228	226	230	183	186	2,176	225	220
1978..	224	150	154	122	128	135	146	174	168	211	184	184	1,980	255	240
1979..	203	153	156	151	133	131	136	154	172	162	159	140	1,850	305	290
1980..	139	86	119	103	63	61	81	102	122	125	127	142	1,270	300	280
1981..	127	156	193	146	104	106	116	118	142	164	130	128	1,630	340	305
	BLUEFIELDS (GROS MICHEL)														
1977..	52	44	43	34	32	30	32	33	37	37	45	40	459	95	95
1978..	36	37	32	31	26	25	24	27	38	42	56	46	420	90	85
1979..	32	28	20	23	26	23	32	38	50	65	55	48	440	75	65
1980..	52	35	28	21	17	18	34	41	40	58	47	49	440	80	55
1981..	44	39	36	40	41	44	49	56	60	60	54	57	580	60	50
	CAVENDISH (CHINESE, ROBUSTA, AND WILLIAMS HYBRID)														
1977..	299	222	248	196	245	289	268	265	287	262	282	286	3,149	290	230
1978..	304	209	221	205	235	292	326	312	272	292	309	323	3,300	295	255
1979..	322	247	240	210	236	255	302	318	287	301	270	272	3,260	310	275
1980..	271	203	169	163	134	155	252	258	255	315	307	408	2,890	345	240
1981..	428	351	323	220	252	283	288	277	292	373	349	354	3,790	355	290
	FARM PRICE FOR FRESH MARKET														
	Cents per pound														
1977..	15.0	15.2	15.6	16.4	16.3	15.3	15.4	15.6	15.7	16.0	15.4	15.7	15.6		
1978..	17.1	18.2	18.9	18.7	20.1	19.9	18.7	18.1	18.3	18.4	18.2	18.5	18.5		
1979..	19.5	19.9	20.1	20.1	20.2	20.4	20.0	20.1	21.6	21.2	21.7	21.5	20.5		
1980..	22.3	24.1	25.9	24.9	24.4	24.5	24.0	24.4	23.8	23.4	23.8	22.9	23.9		
1981..	23.8	25.2	26.4	26.7	25.2	26.4	26.3	26.7	25.9	25.5	25.4	25.5	25.7		

MARKET SUPPLY: Fresh Market Bananas, State of Hawaii, 1960-81



HARS

PAPAYAS: Number of farms, acreage, yield, utilization, price, and value, by islands, 1977-81[1]

Year	Farms[2]	Acreage harvested[2]	Yield per acre[3]	Utilized production	Utilization		Price per pound			Value of utilized production
					Fresh	Processed	Fresh	Processed[4]	All	
	Number	Acres	--------1,000 pounds--------				--------Cents--------			1,000 dollars
					STATE					
1977	186	2,155	29.5	63,548	53,987	9,561	13.2	4.7	11.9	7,565
1978	183	2,190	29.2	64,000	54,624	9,376	14.4	4.6	13.0	8,304
1979	194	2,210	18.6	41,015	36,446	4,569	25.6	4.0	23.2	[5]9,515
1980	197	1,950	25.1	48,916	45,360	3,556	21.7	3.4	20.4	9,979
1981	**211**	**2,110**	**30.1**	**63,600**	**58,170**	**5,430**	**20.8**	**3.1**	**19.3**	**12,267**
					HAWAII					
1977	113	1,745	24.1	42,000	40,479	1,521	12.7		12.3	5,186
1978	108	1,740	25.2	43,860	41,656	2,204	13.6		13.1	5,738
1979	112	1,820	16.8	30,565	27,129	3,436	24.2		21.9	6,680
1980	108	1,665	24.5	41,255	37,947	3,308	21.1		19.7	8,127
1981	**116**	**1,785**	**30.5**	**54,530**	**49,135**	**5,395**	**20.4**		**18.7**	**10,191**
					KAUAI					
1977	32	155	40.0	6,196	6,195	1	[6]13.2		[6]9.9	[6]2,000
1978	28	135	39.0	5,263	5,117	146	[6]15.4		[6]11.4	[6]2,094
1979	32	160	35.4	5,672	5,413	259	[6]27.8		[6]25.4	[6]2,422
1980	37	200	30.5	6,096	5,967	129	[6]20.8		[6]20.5	[6]1,286
1981	**42**	**245**	**29.4**	**7,204**	**7,169**	**35**	**[6]21.2**		**[6]21.5**	**[6]1,567**
					MAUI/MOLOKAI					
1977	5	210	66.4	13,939	5,919	8,020	[6]		[6]	[6]
1978	5	260	50.6	13,167	6,152	7,015	[6]		[6]	[6]
1979	7	165	23.4	3,866	3,035	831	[6]		[6]	[6]
1980	4	10	17.6	176	176	0	[6]		[6]	[6]
1981	**4**	**10**	**21.3**	**213**	**213**	**0**	**[6]**		**[6]**	**[6]**
					OAHU					
1977	36	45	31.4	1,413	1,394	19	27.1		26.8	379
1978	42	55	31.1	1,710	1,699	11	27.8		27.6	472
1979	43	65	14.0	912	869	43	46.7		44.7	408
1980	48	75	18.5	1,389	1,270	119	44.7		41.1	571
1981	**49**	**70**	**23.6**	**1,653**	**1,653**	**0**	**33.8**		**33.8**	**559**

[1] Sum of island estimates may not add to State total due to rounding.
[2] Average of monthly estimates.
[3] Utilized production divided by acreage harvested.
[4] Island data not shown separately to avoid disclosure of individual operations.
[5] Revised estimate.
[6] Kauai and Maui/Molokai combined to avoid disclosure of individual operations.

PAPAYAS: Acreage, production, price, and outshipments, by months, State of Hawaii, 1977-81

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Acreage harvested--Acres [1]												
1977....	2,000	1,965	2,060	2,040	2,045	2,150	2,155	2,150	2,265	2,260	2,360	2,395	2,155
1978....	2,280	2,270	2,210	2,220	2,175	2,155	2,180	2,185	2,145	2,205	2,135	2,145	2,190
1979....	2,265	2,335	2,360	2,340	2,305	2,370	2,390	2,265	2,245	1,910	1,885	1,885	2,210
1980....	1,785	1,915	1,935	2,005	2,040	2,050	1,905	1,930	1,930	1,945	1,985	2,005	1,960
1981....	**2,105**	**1,975**	**1,960**	**2,040**	**2,045**	**2,060**	**2,150**	**2,140**	**2,150**	**2,240**	**2,235**	**2,235**	**2,110**
	Utilization (fresh and processed)--1,000 pounds												
1977....	4,167	3,892	4,243	3,771	4,096	6,127	6,652	6,322	5,502	6,461	6,690	5,625	63,548
1978....	4,256	3,804	4,316	3,971	5,546	6,896	6,664	6,279	6,083	6,825	5,312	4,048	64,000
1979....	3,715	2,493	2,320	2,561	2,796	3,666	3,166	3,268	3,514	4,761	4,732	4,023	41,015
1980....	3,389	2,385	2,116	3,043	4,278	4,508	4,527	3,722	5,218	5,665	4,555	5,510	48,916
1981....	**4,344**	**4,214**	**5,186**	**5,931**	**5,406**	**6,672**	**5,962**	**4,474**	**6,207**	**5,502**	**5,287**	**4,415**	**63,600**
	Farm price for fresh market sales within State--Cents per pound												
1977....	18.6	19.2	22.0	25.2	24.3	18.0	16.1	18.7	20.5	18.5	16.6	17.4	19.5
1978....	22.8	27.4	27.6	27.4	25.7	19.2	18.6	17.6	16.1	15.8	15.8	19.3	21.0
1979....	26.2	30.7	37.8	36.2	31.6	31.4	25.9	35.6	34.7	35.4	28.9	28.4	31.8
1980....	34.0	39.0	43.4	44.7	36.8	31.3	28.8	23.8	22.4	22.6	21.8	21.4	29.3
1981....	**20.9**	**25.8**	**28.4**	**26.8**	**25.9**	**25.0**	**20.6**	**25.4**	**26.4**	**19.2**	**16.6**	**21.4**	**23.5**
	Outshipments of fresh papayas--1,000 pounds												
1977....	2,666	2,649	2,920	2,585	2,688	4,413	4,005	3,756	3,753	4,097	4,003	3,257	40,792
1978....	2,597	2,515	2,846	2,328	3,510	4,339	3,736	3,800	3,769	4,214	3,455	2,666	39,775
1979....	2,459	1,594	1,335	1,538	1,761	2,570	2,108	2,145	2,081	2,996	3,047	2,623	26,257
1980....	1,949	1,424	1,329	1,999	3,019	2,950	3,012	2,545	3,678	4,098	3,301	4,031	33,335
1981....	**3,151**	**2,986**	**3,662**	**4,023**	**3,907**	**4,729**	**4,364**	**3,512**	**4,798**	**3,681**	**3,640**	**2,694**	**45,147**
	Farm price for fresh market sales (to the Mainland and foreign countries) Cents per pound												
1977....	8.3	12.6	14.5	16.6	18.7	13.5	6.2	11.1	9.4	7.8	8.9	10.2	11.1
1978....	14.0	16.7	15.5	18.7	19.2	13.5	9.7	7.8	8.0	6.3	8.5	12.0	12.0
1979....	16.3	21.4	34.0	33.6	36.3	27.5	19.2	28.5	25.4	24.6	21.6	27.2	25.5
1980....	21.7	29.6	34.7	35.4	21.8	22.1	17.3	19.8	15.2	11.0	14.3	12.4	19.0
1981....	**16.5**	**24.9**	**24.0**	**22.9**	**23.2**	**24.0**	**21.0**	**23.8**	**19.5**	**11.2**	**12.7**	**13.6**	**20.1**
	Processed papayas--1,000 pounds												
1977....	404	260	199	214	358	579	1,554	1,480	765	1,035	1,424	1,289	9,561
1978....	532	136	315	417	570	1,355	1,633	1,244	1,126	1,090	583	375	9,376
1979....	224	120	82	145	98	214	271	392	752	830	848	593	4,569
1980....	659	222	195	233	188	496	511	225	209	364	51	203	3,556
1981....	**86**	**139**	**266**	**721**	**456**	**711**	**614**	**174**	**353**	**580**	**487**	**843**	**5,430**

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[1] Total is average of monthly data.

AVOCADOS: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Farms	Acreage[1]		Yield per acre (bearing)	Production	Farm price	Value of sales
		In crop	Bearing				
	Number	-----Acres-----		----1,000 pounds----		Cents per pound	1,000 dollars
1977..	124	305	145	6.5	940	25.8	243
1978..	127	330	160	5.8	920	28.6	263
1979..	142	340	165	7.7	1,270	26.6	338
1980..	145	350	200	7.6	1,510	24.5	370
1981..	149	370	200	6.0	1,200	26.4	317

1/ At end of year.

ORANGES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Farms	Acreage bearing[1]	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	----1,000 pounds----		Cents per pound	1,000 dollars
1977..	46	55	4.9	270	12.6	34
1978..	45	42	5.2	220	17.3	38
1979..	32	37	5.4	200	18.1	36
1980..	28	30	4.7	140	18.1	25
1981..	24	48	4.6	220	21.8	48

1/ At end of year.

TANGERINES: Number of farms, acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Farms	Acreage bearing[1]	Yield per acre	Production	Farm price	Value of sales
	Number	Acres	----1,000 pounds----		Cents per pound	1,000 dollars
1977..	41	45	4.1	185	21.6	40
1978..	37	36	4.7	170	23.8	40
1979..	29	30	5.0	150	22.9	34
1980..	22	28	3.6	100	23.3	23
1981..	20	28	3.6	100	29.3	29

1/ At end of year.

PASSION FRUIT: Number of farms, acreage, quantity processed, price, and value, State of Hawaii, 1977-81

Year	Farms	Cultivated acreage[1]		Quantity processed[2]	Average price	Value of sales[2]
		In crop	Bearing			
	Number	-------Acres-------		1,000 pounds	Cents per pound	1,000 dollars
1977....	5	260	38	1,960	8.4	165
1978....	5	265	200	2,300	8.8	202
1979....	5	110	45	1,615	8.9	143
1980....	5	75	55	2,400	10.8	259
1981....	**4**	**70**	**50**	**1,470**	**11.1**	**163**

1/ At end of year. 2/ Includes wild and cultivated production.

GUAVAS: Total processed, farm production, number of farms, acreage, price, and value, State of Hawaii, 1977-81

Year	Total delivered to processors[1]			Farm production					
	Quantity processed	Average price	Value of sales	Farms	Acreage in crop	Acreage harvested	Production	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	Number	------Acres------		1,000 pounds	Cents per pound	1,000 dollars
					STATE				
1977....	3,870	8.0	310	96	665	317	2,140	8.7	186
1978....	5,530	8.3	459	97	795	445	3,790	8.9	337
1979....	6,450	9.2	593	105	905	563	4,500	9.4	424
1980....	9,850	11.0	1,084	108	975	615	7,520	11.5	865
1981....	**7,290**	**10.8**	**787**	**97**	**935**	**620**	**6,520**	**11.0**	**717**
					HAWAII				
1977-79 2/									
1980....	6,700	11.2	750	93	495	325	5,420	11.7	634
1981....	**3,560**	**11.0**	**392**	**87**	**450**	**330**	**3,530**	**11.0**	**388**
					KAUAI/MAUI/MOLOKAI/OAHU 3/				
1977-79 2/									
1980....	3,150	10.6	334	15	480	290	2,100	11.0	231
1981....	**3,730**	**10.6**	**395**	**10**	**485**	**290**	**2,990**	**11.0**	**329**

1/ Fruit allocated to island of production not island where processed. Includes wild and cultivated production.
2/ Not published separately because of disclosure of individual operations.
3/ Kauai/Maui/Molokai/Oahu combined to avoid disclosure of individual operations.

GUAVAS: Quantity, price, and value, State of Hawaii, 1976-81

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL TOTAL	AVERAGE PRICE 1/	VALUE
	---------1,000 POUNDS---------													CENTS PER LB.	1,000 DOLLARS
1976.........													5,920	7.3	432
1977.........	MONTHLY DATA UNAVAILABLE, 1976-78												3,870	8.0	310
1978.........													5,530	8.3	459
1979.........	183	217	150	166	269	290	160	1,045	2,327	1,061	290	292	6,450	9.2	593
1980.........	325	204	263	756	408	449	963	2,091	2,333	1,558	341	159	9,850	11.0	1,084
1981.........	**222**	**263**	**389**	**671**	**791**	**398**	**617**	**1,012**	**1,355**	**805**	**607**	**160**	**7,290**	**10.8**	**787**

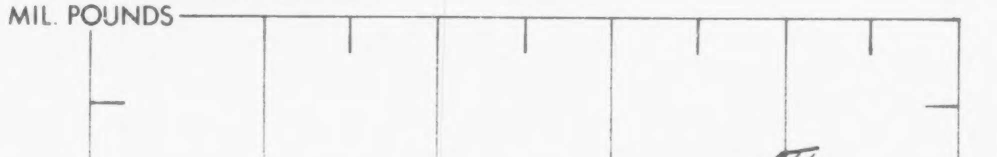
1/ Equivalent F.O.B. plant, island of production. Prices for guavas are averages for wild and cultivated fruit.

MARKET SUPPLY: Fresh market fruits, State of Hawaii, 1977-81[1]

Commodity	1977	1978	1979	1980	1981
			1,000 pounds		
Apples: Inshipments	10,992	11,002	13,044	12,700	**12,878**
Avocados: Inshipments	270	478	379	283	**559**
Hawaii	940	920	1,270	1,510	**1,200**
Bananas: Inshipments	6,006	7,792	8,205	9,528	**7,910**
Hawaii	5,800	5,700	5,550	4,600	**6,000**
Grapefruit: Inshipments	2,577	2,851	2,829	3,145	**2,757**
Grapes: Inshipments	3,116	3,125	4,054	4,208	**4,459**
Lemons: Inshipments	2,681	3,028	3,025	2,771	**3,065**
Nectarines: Inshipments	1,622	1,112	1,732	1,744	**1,739**
Oranges: Inshipments	14,002	14,744	15,089	18,987	**17,748**
Hawaii	270	220	200	140	**220**
Papayas: Hawaii	13,195	14,849	10,189	12,025	**13,023**
Pears: Inshipments	2,834	2,703	2,777	2,581	**3,072**
Tangerines: Inshipments	883	1,029	1,125	1,169	**762**
Hawaii	185	170	150	100	**100**
All other fruits: Inshipments	4,800	4,079	4,839	4,376	**4,911**
Hawaii	266	280	350	285	**340**
Unspecified fruits: Inshipments		2/1,862	2/1,197	2/434	**1,696**
Total: Inshipments	49,783	53,805	58,295	61,926	**61,556**
Hawaii	20,656	22,139	17,709	18,660	**20,883**
All	70,439	75,944	76,004	80,586	**82,439**

1/ Excludes pineapples, guavas, papayas, and passion fruit used for processing, and quantities shipped out-of-State.
2/ Proration of shipments of unspecified mixed fruits destined for outlying islands.
Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Fruits, State of Hawaii, 1960-81



HARS

MARKET SUPPLY: Fresh market melons, State of Hawaii, 1977-81

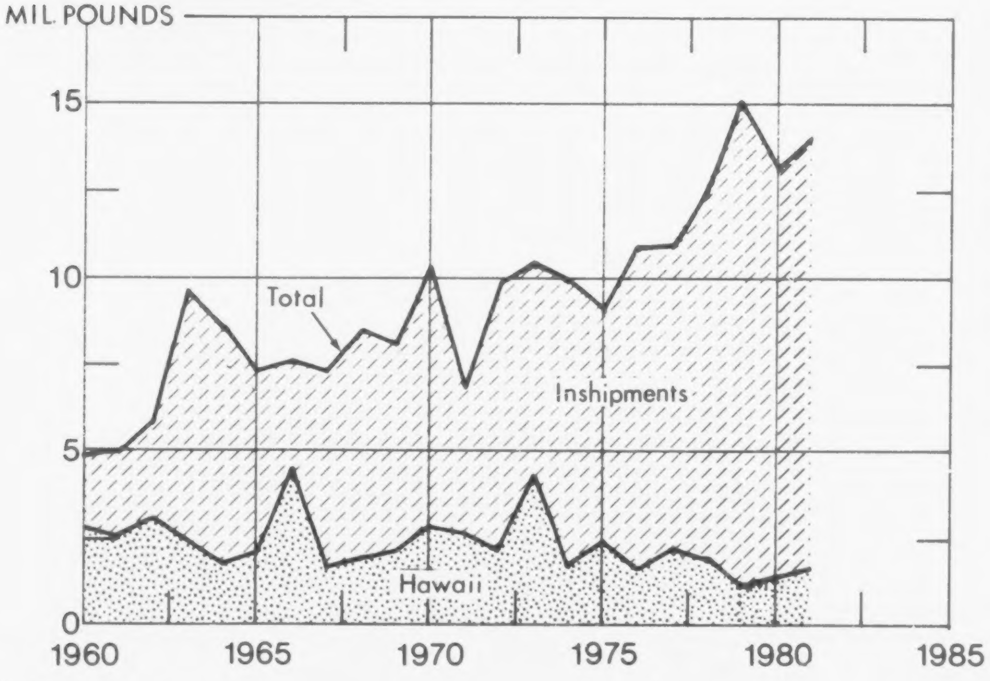
Commodity	1977	1978	1979	1980	1981
			1,000 pounds		
Cantaloupes:					
Inshipments..........	3,271	3,824	4,355	3,563	3,703
Hawaii...............	10	--	--	--	--
Honeydew melons:					
Inshipments..........	1,724	2,375	3,043	2,550	2,727
Watermelons:					
Inshipments..........	3,584	3,704	5,773	5,362	5,393
Hawaii...............	2,075	1,870	1,130	1,350	1,610
Other melons:					
Inshipments..........	207	194	380	324	351
Unspecified melons:					
Inshipments..........		1/409	1/263	1/95	1/371
Total:					
Inshipments..........	8,786	10,506	13,814	11,894	12,545
Hawaii...............	2,085	1,870	1,130	1,350	1,610
All..................	10,871	12,376	14,944	13,244	14,155

-- = Negligible.

1/ Proration of shipments of unspecified mixed melons destined for outlying islands.

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Melons, State of Hawaii, 1960-81



HARS

MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1977-81

Commodity	1977	1978	1979	1980	1981
			1,000 pounds		
Beans, snap: Inshipments	328	275	275	292	183
Hawaii	1,200	1,300	1,400	1,100	1,300
Bittermelon: Inshipments	0	0	8	1	1
Hawaii	450	330	320	220	290
Broccoli: Inshipments	2,309	2,529	2,812	3,092	3,130
Hawaii	135	270	360	370	500
Burdock: Inshipments	0	0	0	0	0
Hawaii	455	495	580	570	640
Cabbage, Chinese: Inshipments	134	259	613	360	300
Hawaii 1/	6,360	6,050	5,700	6,060	5,830
Cabbage, head: Inshipments	233	358	627	646	1,035
Hawaii	13,000	13,800	13,500	13,600	12,800
Cabbage, mustard: Inshipments	41	14	42	64	104
Hawaii	1,350	1,470	1,250	1,330	1,520
Carrots: Inshipments	6,549	6,878	7,354	7,716	7,571
Hawaii	175	180	290	310	230
Cauliflower: Inshipments	630	587	817	961	1,058
Hawaii	460	610	490	420	450
Celery: Inshipments	4,205	4,331	5,047	4,852	4,852
Hawaii	2,360	2,765	2,650	2,880	2,820
Corn, sweet: Inshipments	0	0	0	0	16
Hawaii	1,620	1,590	1,510	950	1,050
Cucumbers: Inshipments	1,027	1,241	1,399	1,360	1,544
Hawaii	4,300	4,300	4,700	4,600	5,000
Daikon: Inshipments	7	2	0	0	0
Hawaii 1/	2,220	2,155	2,250	2,340	1,990
Dasheens: Inshipments	2	0	0	0	12
Hawaii	270	240	250	340	200
Eggplant: Inshipments	115	126	193	143	81
Hawaii	1,425	1,740	1,570	1,540	1,580
Ginger root: Inshipments	329	183	170	376	480
Hawaii	1,110	1,340	1,860	1,610	2,860
Lettuce: Inshipments	11,782	12,204	14,112	13,687	12,584
Hawaii	9,800	10,300	9,400	9,900	10,200
Lotus root: Hawaii	150	190	210	190	180
Onions, dry: Inshipments	11,469	12,383	12,753	13,020	12,186
Hawaii	1,850	1,500	1,190	1,150	1,980
Onions, green: Inshipments	493	400	520	585	509
Hawaii	835	980	1,135	900	740
Parsley, American: Inshipments	52	84	44	17	20
Hawaii	165	210	170	250	280
Peas, Chinese: Inshipments	62	26	83	189	156
Hawaii	75	85	100	70	70
Peppers, green: Inshipments	1,173	1,595	1,757	1,913	1,683
Hawaii	1,070	820	890	620	760
Potatoes: Inshipments 2/	32,218	34,464	36,136	36,527	36,648
Hawaii	75	--	--	--	--
Pumpkins: Inshipments	314	308	189	227	295
Hawaii	295	340	300	295	330
Radish: Inshipments	14	11	8	1	7
Hawaii	345	230	360	295	240

See footnotes at end of table, page 45.

Continued

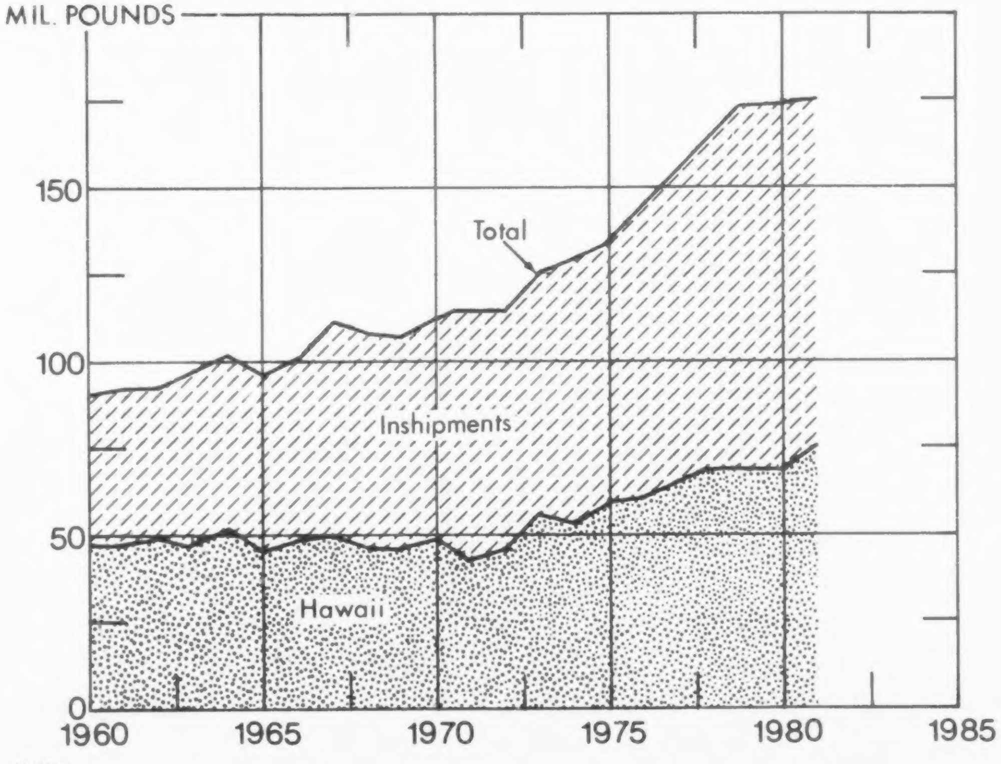
MARKET SUPPLY: Fresh market vegetables, State of Hawaii, 1977-81--Continued

Commodity	1977	1978	1979	1980	1981
			1,000 pounds		
Romaine: Inshipments	522	486	714	746	617
Hawaii	1,905	2,345	2,270	2,170	2,320
Squash, Italian: Inshipments	587	855	1,198	1,221	1,203
Hawaii	375	350	220	300	540
Squash, Oriental: Inshipments	14	31	92	4	14
Hawaii	550	750	780	730	770
Sweetpotatoes: Inshipments	605	533	601	767	604
Hawaii	1,190	1,520	1,740	1,300	1,250
Taro: Inshipments	45	226	586	375	905
Hawaii	710	694	415	520	215
Tomatoes: Inshipments	6,608	7,887	8,442	8,114	6,744
Hawaii	6,000	7,000	6,200	7,700	8,300
Watercress: Inshipments	1	1	0	0	177
Hawaii	1,380	1,545	1,670	1,420	1,130
All other vegetables: Inshipments	6,309	5,508	6,856	7,331	7,101
Hawaii	1,450	1,530	1,855	1,960	2,010
Unspecified vegetables: Inshipments		3/ 3,560	3/ 2,293	3/ 827	3/ 3,232
Total: Inshipments	88,177	97,345	105,741	105,414	105,052
Hawaii	65,110	69,024	67,585	68,010	70,375
All	153,287	166,369	173,326	173,424	175,427

-- = Negligible. 1/ Fresh market only. 2/ For processing and fresh market. (Potato production for Hawaii included with all other vegetables for Hawaii to avoid disclosure in 1978-81.) 3/ Proration of shipments of unspecified mixed vegetables destined for outlying islands.

Source of inshipment data: Market News Service, Hawaii Department of Agriculture.

MARKET SUPPLY: Fresh Market Vegetables, State of Hawaii, 1960-81



HARS

SNAP BEANS: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE 1/		
1977...	160	7.5	1,200	52.5	630
1978...	200	6.5	1,300	57.5	748
1979...	210	6.5	1,400	66.9	937
1980...	130	8.5	1,100	73.8	812
1981...	130	10.0	1,300	76.1	989
			HAWAII/KAUAI 2/		
1977...	15	12.3	185	46.0	85
1978...	25	9.6	240	51.3	123
1979...	30	7.7	230	54.6	126
1980...	20	10.5	210	61.1	128
1981...	20	11.5	230	64.8	149
			MAUI/MOLOKAI		
1977...	85	7.1	605	48.7	295
1978...	100	6.0	600	56.4	338
1979...	90	6.6	590	66.0	389
1980...	85	7.4	630	78.4	494
1981...	80	8.2	660	79.0	521
			OAHU		
1977...	60	6.8	410	60.9	250
1978...	75	6.1	460	62.3	287
1979...	90	6.4	580	72.8	422
1980...	25	10.4	260	72.9	190
1981...	30	13.7	410	77.8	319

1/ Sum of island estimates may not add to State total due to rounding.
2/ Kauai combined with Hawaii to avoid disclosure of individual operations.

SNAP BEANS: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production[2]					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	20	21	17	10	15	94	127	74	46	87	46.3	52.1	68.6	76.8	85.9
February..........	21	19	17	12	15	97	135	70	71	88	49.3	49.5	73.1	73.8	87.0
March..........	22	22	19	9	16	88	127	130	90	101	58.2	48.5	68.8	74.6	90.4
April..........	23	24	22	14	18	88	115	144	93	135	61.3	57.1	61.8	74.3	69.1
May..........	23	25	26	14	20	116	126	151	114	112	51.4	57.7	57.0	72.0	75.8
June..........	25	24	25	13	20	114	102	118	100	101	40.0	54.7	62.1	74.5	64.1
July..........	23	22	26	13	19	126	98	141	104	116	46.8	59.8	71.0	73.9	71.3
August..........	22	21	22	14	17	105	107	141	117	117	48.1	62.2	62.5	72.8	72.8
September..........	23	20	24	13	17	91	84	152	88	111	55.6	62.6	66.3	71.6	69.0
October..........	22	20	20	12	15	92	112	107	96	118	60.3	63.7	67.7	72.1	75.0
November..........	21	22	18	15	14	93	81	98	102	116	59.9	67.8	70.1	75.0	76.9
December..........	21	20	17	13	13	96	86	85	79	98	59.3	64.3	88.0	76.2	83.3
Total or average..	160	200	210	130	130	1,200	1,300	1,400	1,100	1,300	52.5	57.5	66.9	73.8	76.1

1/ Sum of monthly data exceeds total because harvest period longer than 1 month.
2/ Sum of monthly estimates may not add to annual total due to rounding.

BROCCOLI: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
1977....	13	10.4	135	30.5	41
1978....	26	10.4	270	31.7	86
1979....	40	9.0	360	32.8	118
1980....	40	9.2	370	33.2	123
1981....	45	11.1	500	33.3	167

BURDOCK: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
1977....	23	19.8	455	39.6	180
1978....	31	16.0	495	43.3	214
1979....	35	16.6	580	49.5	287
1980....	35	16.3	570	56.9	324
1981....	35	18.3	640	57.2	366

CARROTS: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
1977....	14	12.5	175	17.3	30
1978....	14	12.9	180	17.9	32
1979....	25	11.6	290	19.7	57
1980....	25	12.4	310	19.9	62
1981....	15	15.3	230	23.4	54

CAULIFLOWER: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
1977....	31	14.8	460	25.2	116
1978....	42	14.5	610	27.0	165
1979....	33	14.8	490	27.6	135
1980....	30	14.0	420	30.0	126
1981....	30	15.0	450	27.2	122

CHINESE CABBAGE: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE 1/		
1977....	270	26.3	7,090	12.3	872
1978....	270	25.1	6,770	12.1	819
1979....	335	19.7	6,600	15.2	1,003
1980....	350	19.7	6,900	14.5	1,001
1981....	**310**	**21.6**	**6,700**	**14.5**	**972**
			HAWAII		
1977....	215	29.1	6,255	12.2	763
1978....	225	26.6	5,975	12.1	723
1979....	290	19.9	5,760	15.1	870
1980....	315	20.0	6,300	14.3	901
1981....	**280**	**22.1**	**6,180**	**14.3**	**884**
			KAUAI/MAUI/OAHU 2/		
1977....	55	15.2	835	13.0	109
1978....	47	16.9	795	12.1	96
1979....	45	18.7	840	15.8	133
1980....	35	17.1	600	16.6	100
1981....	**30**	**17.3**	**520**	**16.9**	**88**

1/ Sum of island estimates may not add to State total due to rounding.

2/ Kauai and Oahu combined with Maui to avoid disclosure of individual operations.

CHINESE CABBAGE: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Processing and fresh market									
						Production					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	22	22	26	29	**32**	559	582	488	519	**620**	12.4	9.5	15.2	18.1	**12.7**
February.........	28	23	27	26	**31**	820	576	389	555	**552**	12.6	9.0	17.3	15.8	**13.9**
March............	36	32	30	40	**29**	958	933	638	694	**644**	12.5	9.7	21.8	13.8	**14.5**
April............	30	33	40	30	**34**	731	859	1,043	587	**725**	12.5	11.2	17.0	13.1	**12.5**
May..............	21	18	31	30	**28**	550	459	658	586	**642**	10.6	12.7	11.7	14.1	**11.7**
June.............	18	19	23	33	**25**	469	507	540	525	**507**	10.9	13.1	11.3	13.7	**10.2**
July.............	19	16	27	28	**21**	482	380	429	610	**460**	10.9	14.3	12.8	12.6	**15.2**
August...........	17	15	27	27	**19**	423	339	524	507	**341**	11.9	15.1	16.1	12.9	**19.0**
September........	18	19	26	27	**18**	428	484	451	570	**385**	14.8	15.5	12.2	16.1	**21.0**
October..........	19	26	26	24	**20**	528	618	554	531	**619**	14.8	13.7	12.6	14.8	**19.4**
November.........	19	22	28	27	**26**	540	450	427	502	**550**	12.1	12.6	15.5	14.8	**14.0**
December.........	23	27	27	29	**27**	602	583	459	714	**655**	11.0	13.8	17.2	14.7	**13.9**
Total or average..	270	270	335	350	**310**	7,090	6,770	6,600	6,900	**6,700**	12.3	12.1	15.2	14.5	**14.5**

1/ Sum of monthly estimates may not add to annual total due to rounding.

PROCESSED CHINESE CABBAGE AND DAIKON: Quantity processed, price, and value, State of Hawaii, 1977-81

Year	Chinese cabbage			Daikon		
	Quantity processed	Farm price	Value of sales	Quantity processed	Farm price	Value of sales
	1,000 pounds	Cents per pound	1,000 dollars	1,000 pounds	Cents per pound	1,000 dollars
1977...	730	12.0	88	1,130	7.5	85
1978...	720	13.1	94	1,010	7.5	76
1979...	900	15.2	137	1,010	7.7	78
1980...	840	14.8	124	1,030	8.6	89
1981...	870	14.8	129	690	10.3	71

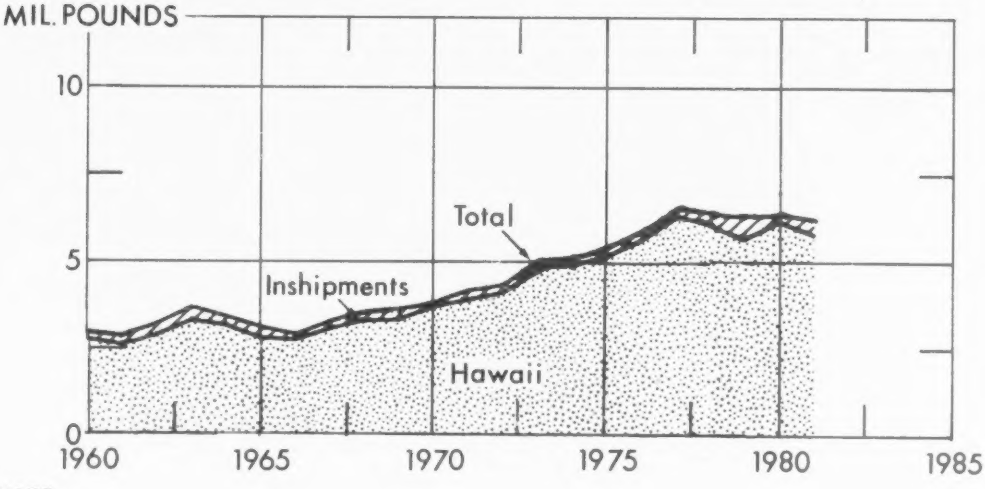
MUSTARD CABBAGE: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
1977....	90	15.0	1,350	21.5	290
1978....	110	13.4	1,470	23.3	343
1979....	120	10.4	1,250	29.0	363
1980....	100	13.3	1,330	30.3	403
1981....	125	12.2	1,520	28.3	430

DASHEEN: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

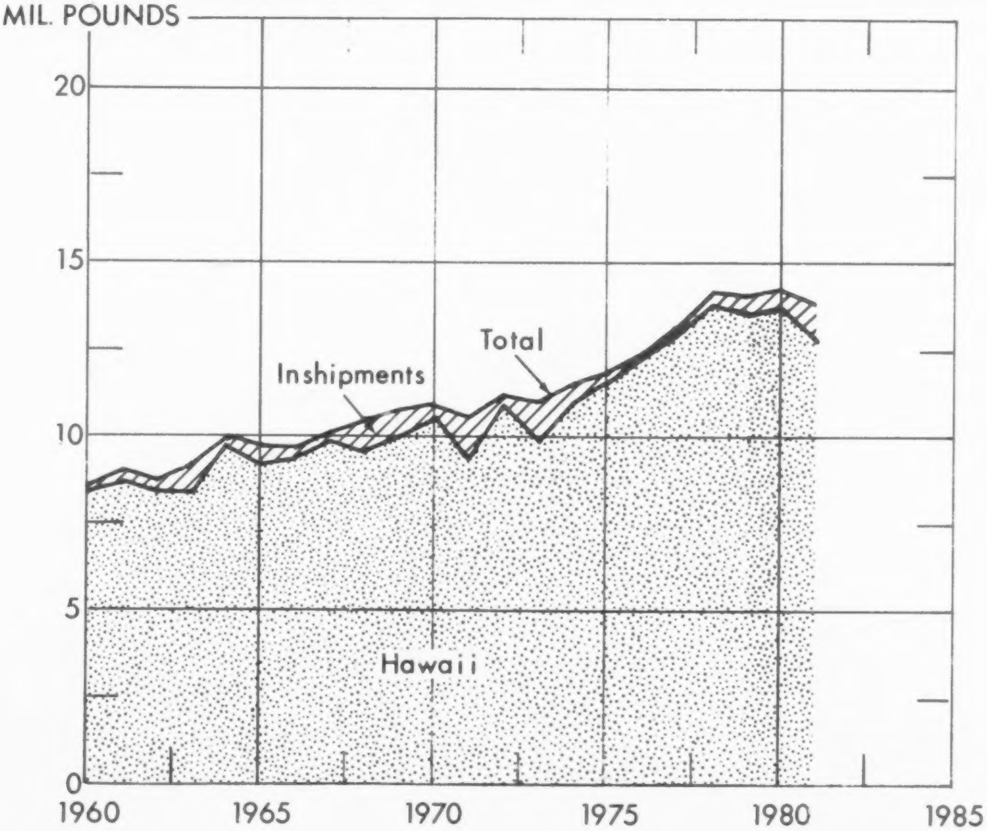
Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
1977....	10	27.0	270	47.8	129
1978....	9	26.7	240	46.3	111
1979....	10	25.0	250	51.3	128
1980....	14	24.3	340	51.4	175
1981....	7	28.6	200	59.0	118

MARKET SUPPLY: Fresh Market Chinese Cabbage, State of Hawaii, 1960-81



HARS

MARKET SUPPLY: Fresh Market Head Cabbage, State of Hawaii, 1960-81



HARS

HEAD CABBAGE: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	--------1,000 pounds-------		Cents per pound	1,000 dollars
			STATE 1/		
1977..	440	29.5	13,000	11.2	1,456
1978..	460	30.0	13,800	10.5	1,449
1979..	450	30.0	13,500	11.3	1,526
1980..	460	29.5	13,600	12.8	1,741
1981..	**510**	**25.0**	**12,800**	**14.0**	**1,792**
			HAWAII/KAUAI/OAHU 2/		
1977..	66	25.6	1,690	9.8	165
1978..	80	22.9	1,835	10.5	193
1979..	90	22.4	2,020	11.2	226
1980..	100	23.3	2,330	12.3	287
1981..	**120**	**19.2**	**2,300**	**13.6**	**312**
			MAUI		
1977..	375	30.2	11,325	11.4	1,291
1978..	380	31.5	11,965	10.5	1,256
1979..	360	31.9	11,500	11.3	1,300
1980..	360	31.3	11,270	12.9	1,454
1981..	**390**	**26.9**	**10,500**	**14.1**	**1,480**

1/ Sum of island estimates may not add to State total due to rounding.
2/ Kauai and Oahu combined with Hawaii to avoid disclosure of individual operations.

HEAD CABBAGE: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production[1]					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	-----------Acres-----------					-----------1,000 pounds-----------					-------Cents per pound-------				
January..........	41	38	34	38	**43**	1,092	1,167	949	1,162	**1,139**	10.9	11.5	13.9	14.7	**13.9**
February.........	42	39	37	36	**48**	1,134	1,165	1,020	1,087	**1,203**	10.8	10.7	15.6	12.9	**13.9**
March............	45	41	36	37	**47**	1,360	1,232	1,037	1,198	**1,263**	10.9	10.1	18.5	12.5	**13.1**
April............	40	39	38	38	**47**	1,048	1,115	1,179	1,220	**1,259**	10.6	8.8	15.6	12.5	**12.6**
May..............	30	39	44	40	**47**	1,075	1,191	1,334	1,245	**1,162**	9.8	7.9	9.8	12.5	**10.5**
June.............	31	36	39	39	**44**	1,045	1,090	1,185	1,128	**1,087**	9.4	8.1	8.4	11.3	**9.3**
July.............	33	34	40	39	**35**	876	949	1,180	1,183	**830**	10.1	10.0	7.9	10.4	**13.4**
August...........	35	40	38	41	**39**	1,058	1,257	1,227	1,093	**877**	11.2	11.4	7.8	10.6	**14.8**
September........	35	37	38	41	**34**	999	1,124	1,130	1,118	**797**	12.5	11.4	7.8	13.0	**17.2**
October..........	35	39	37	36	**38**	1,000	1,193	1,121	961	**929**	13.0	11.3	8.6	13.7	**18.8**
November.........	36	39	38	36	**44**	1,110	1,169	1,117	994	**1,041**	12.5	11.9	11.6	14.7	**17.0**
December.........	37	39	33	37	**44**	1,218	1,148	1,041	1,211	**1,213**	12.4	12.9	12.3	14.7	**15.7**
Total or average..	440	460	450	460	**510**	13,000	13,800	13,500	13,600	**12,800**	11.2	10.5	11.3	12.8	**14.0**

1/ Sum of monthly estimates may not add to State total due to rounding.

CELERY: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1977..	42	56.2	2,360	17.0	401
1978..	50	55.3	2,765	17.3	478
1979..	65	40.8	2,650	17.3	458
1980..	70	41.1	2,880	16.7	481
1981..	65	43.4	2,820	20.1	567
			HAWAII		
1977..	32	57.2	1,830	16.5	302
1978..	38	57.0	2,165	16.7	362
1979..	50	41.6	2,080	16.7	347
1980..	55	41.8	2,300	16.1	370
1981..	50	42.0	2,100	19.6	412
			MAUI		
1977..	10	53.0	530	18.6	99
1978..	12	50.0	600	19.3	116
1979..	15	38.0	570	19.4	111
1980..	15	38.7	580	19.1	111
1981..	15	48.0	720	21.5	155

CELERY: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested					Production					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	3	4	5	4	5	154	175	162	164	201	17.3	16.2	17.8	18.7	19.8
February.........	3	4	5	4	5	193	207	183	155	208	18.4	16.0	19.2	18.0	19.9
March............	4	4	5	6	5	205	254	195	240	242	17.8	16.1	18.5	17.5	18.8
April............	4	4	6	6	6	219	261	233	261	253	17.5	17.0	17.7	16.2	18.9
May..............	4	5	6	5	7	228	300	243	244	299	17.1	18.6	16.5	16.5	19.6
June.............	4	5	6	6	5	214	272	264	253	265	16.5	17.8	17.6	16.5	20.7
July.............	4	4	6	7	6	227	225	255	261	235	16.3	19.5	18.4	16.5	21.0
August...........	4	4	6	7	5	235	223	254	275	219	16.6	18.3	16.5	16.6	21.1
September........	3	4	6	6	5	211	216	209	238	206	16.6	16.8	16.4	16.1	20.5
October..........	3	4	5	6	5	145	213	232	260	223	16.7	17.0	16.2	16.2	20.1
November.........	3	4	5	7	5	155	203	226	260	215	16.3	17.1	16.6	16.1	20.0
December.........	3	4	4	6	6	174	216	194	269	254	17.3	16.4	16.6	16.4	20.6
Total or average..	42	50	65	70	65	2,360	2,765	2,650	2,880	2,820	17.0	17.3	17.3	16.7	20.1

SWEET CORN: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1977..	410	4.0	1,620	23.2	376
1978..	400	4.0	1,590	20.0	318
1979..	380	4.0	1,510	21.2	320
1980..	250	3.8	950	26.2	249
1981..	290	3.6	1,050	29.3	308
			HAWAII/KAUAI [2]		
1977..	16	4.1	65	22.5	15
1978..	15	5.0	75	20.0	15
1979..	20	4.5	90	22.7	20
1980..	35	4.9	170	27.6	47
1981..	40	4.4	175	26.9	47
			MAUI/MOLOKAI		
1977..	47	4.5	210	22.1	46
1978..	30	4.5	135	22.5	30
1979..	30	3.0	90	21.0	19
1980..	20	4.0	80	24.5	20
1981..	15	3.7	55	34.6	19
			OAHU		
1977..	345	3.9	1,345	23.4	315
1978..	355	3.9	1,380	19.8	273
1979..	330	4.0	1,330	21.1	281
1980..	195	3.6	700	26.0	182
1981..	235	3.5	820	29.5	242

[1] Sum of island estimates may not add to State total due to rounding.

[2] Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEET CORN: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested					Production[1]					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	26	23	35	13	17	69	106	61	33	55	24.6	21.2	24.5	23.2	27.4
February..........	27	22	16	12	15	83	100	29	36	51	23.5	20.9	21.4	22.7	28.4
March..........	34	26	23	8	14	129	117	74	21	52	23.2	20.9	19.9	25.7	31.7
April..........	40	27	17	16	28	161	135	64	48	133	22.4	20.5	20.1	27.8	30.7
May..........	41	40	23	21	34	166	164	98	91	109	23.9	19.3	23.6	21.7	31.5
June..........	35	41	30	18	32	119	140	167	93	116	25.6	20.2	22.8	21.6	31.9
July..........	28	44	39	23	20	113	138	196	133	88	26.2	21.3	21.2	26.8	27.9
August..........	41	28	41	27	29	169	122	195	125	106	26.5	20.2	20.7	27.1	27.3
September..........	42	28	43	24	32	215	130	206	80	104	20.8	19.5	20.4	26.6	28.0
October..........	36	38	39	27	26	164	163	190	86	89	20.6	19.2	21.1	28.1	28.9
November..........	35	42	42	32	25	127	127	145	101	85	21.9	18.8	20.4	28.8	28.0
December..........	25	41	32	29	18	103	148	85	103	62	21.3	19.4	19.7	29.5	28.3
Total or average..	410	400	380	250	290	1,620	1,590	1,510	950	1,050	23.2	20.0	21.2	26.2	29.3

[1] Sum of monthly estimates may not add to annual total due to rounding.

CUCUMBERS: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
			STATE 1/		
1977..	260	16.5	4,300	23.4	1,006
1978..	260	16.5	4,300	24.0	1,032
1979..	270	17.5	4,700	26.1	1,227
1980..	210	22.0	4,600	25.5	1,173
1981..	**250**	**20.0**	**5,000**	**25.3**	**1,265**
			HAWAII		
1977..	100	21.2	2,125	21.1	448
1978..	95	21.7	2,060	21.2	437
1979..	120	21.7	2,600	23.3	606
1980..	90	32.8	2,950	22.8	673
1981..	**90**	**33.3**	**3,000**	**22.2**	**666**
			KAUAI		
1977..	40	12.3	490	23.8	117
1978..	40	16.1	645	23.3	150
1979..	35	17.7	620	26.1	162
1980..	15	16.0	240	27.7	66
1981..	**35**	**11.4**	**400**	**24.6**	**98**
			MAUI/MOLOKAI		
1977..	25	14.8	370	25.5	94
1978..	25	14.0	350	26.0	91
1979..	15	16.7	250	31.2	78
1980..	25	14.4	360	26.7	96
1981..	**35**	**11.4**	**400**	**28.2**	**113**
			OAHU		
1977..	95	13.8	1,315	26.4	347
1978..	100	12.4	1,245	28.4	354
1979..	100	12.3	1,230	31.0	381
1980..	80	13.1	1,050	32.2	338
1981..	**90**	**13.3**	**1,200**	**32.3**	**388**

1/ Sum of island estimates may not add to State total due to rounding.

CUCUMBERS: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production[2]					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	------------Acres------------					--- -----1,000 pounds----------					-------Cents per pound--------				
January..........	31	34	24	22	**24**	199	351	198	217	**371**	24.8	23.2	33.5	26.7	**28.5**
February.........	29	28	22	17	**17**	206	244	98	264	**198**	29.2	25.0	39.4	26.3	**30.0**
March............	32	34	35	21	**26**	353	296	355	220	**307**	29.3	27.7	26.1	27.9	**30.8**
April............	42	38	32	27	**36**	387	444	366	392	**495**	27.4	28.1	24.6	26.4	**20.8**
May..............	37	46	29	28	**30**	466	645	425	488	**459**	20.1	14.9	27.0	25.4	**21.4**
June.............	23	34	33	28	**27**	273	363	471	354	**414**	22.4	22.6	25.5	23.8	**26.2**
July.............	22	31	38	30	**26**	399	406	458	526	**549**	23.6	26.0	25.2	22.9	**24.5**
August...........	33	32	31	37	**34**	503	435	528	577	**503**	17.5	19.8	23.1	18.5	**20.9**
September........	30	33	36	30	**32**	349	310	527	479	**422**	22.5	23.5	25.1	23.8	**24.2**
October..........	35	36	42	25	**30**	396	284	474	298	**387**	21.4	28.0	25.0	28.9	**27.4**
November.........	36	36	36	22	**28**	322	255	393	336	**500**	26.7	30.1	25.7	31.1	**28.0**
December.........	36	33	28	22	**27**	447	267	407	449	**395**	22.6	30.7	28.2	31.7	**27.3**
Total or average..	260	260	270	210	**250**	4,300	4,300	4,700	4,600	**5,000**	23.4	24.0	26.1	25.5	**25.3**

1/ Sum of monthly data exceeds total because harvest period longer than 1 month.
2/ Sum of monthly estimates may not add to annual total due to rounding.

DAIKON: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE 1/		
1977..	160	20.9	3,350	12.2	409
1978..	160	19.8	3,170	13.6	431
1979..	210	15.5	3,260	15.2	496
1980..	200	16.9	3,370	15.9	536
1981..	200	13.4	2,680	16.6	445
			HAWAII		
1977..	70	22.1	1,545	8.2	127
1978..	70	19.3	1,350	8.3	112
1979..	110	13.4	1,470	9.4	138
1980..	110	15.0	1,645	10.6	174
1981..	110	12.9	1,420	12.6	179
			MAUI/OAHU 2/		
1977..	90	20.1	1,805	15.6	282
1978..	90	20.2	1,820	17.5	319
1979..	100	17.9	1,790	20.0	358
1980..	90	19.2	1,725	21.0	362
1981..	90	14.0	1,260	21.1	266

1/ Sum of island estimates may not add to State total due to rounding.

2/ Maui and Oahu combined to avoid disclosure of individual operations.

DAIKON: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Processing and fresh market									
						Production					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	13	14	15	18	18	306	317	266	266	194	10.3	9.9	19.6	17.3	16.1
February.........	15	12	15	16	14	275	273	205	288	185	11.5	12.0	18.8	17.5	15.4
March............	15	14	15	15	18	286	323	193	267	249	13.4	10.9	21.0	17.9	17.6
April............	14	12	17	20	19	274	295	259	385	311	11.7	12.4	10.2	14.6	11.8
May..............	11	10	18	21	20	220	278	333	370	230	12.4	12.6	11.6	12.2	14.9
June.............	12	10	21	14	16	265	243	301	244	182	15.0	14.0	11.2	13.8	17.5
July.............	13	14	22	16	19	306	278	295	276	254	12.5	16.3	12.9	15.7	17.4
August...........	14	15	22	17	19	317	273	299	267	232	10.0	12.2	13.9	14.3	14.7
September........	13	13	15	16	15	247	230	252	255	155	11.9	13.5	13.0	15.2	16.3
October..........	12	17	16	17	13	242	242	295	247	202	14.0	16.6	16.6	17.0	19.2
November.........	13	15	18	12	14	276	216	323	212	224	13.8	16.9	12.3	19.2	18.3
December.........	15	14	16	18	15	336	202	239	293	262	11.2	19.0	16.9	18.5	21.3
Total or average..	160	160	210	200	200	3,350	3,170	3,260	3,370	2,680	12.2	13.6	15.2	15.9	16.6

1/ Sum of monthly estimates may not add to State total due to rounding.

EGGPLANT: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE[1/]		
1977..	55	25.9	1,425	32.9	469
1978..	65	26.8	1,740	34.3	597
1979..	60	26.2	1,570	42.0	659
1980..	60	25.7	1,540	38.1	587
1981..	**60**	**35.7**	**1,580**	**35.7**	**564**
			HAWAII/MAUI/MOLOKAI [2/]		
1977..	11	21.4	235	25.3	59
1978..	11	19.5	215	25.0	54
1979..	13	18.5	240	35.0	84
1980..	14	18.6	260	35.8	93
1981..	**15**	**18.0**	**270**	**34.8**	**94**
			KAUAI		
1977..	19	26.3	500	31.6	158
1978..	19	29.7	565	30.4	172
1979..	17	28.2	480	38.8	186
1980..	17	28.8	490	38.1	187
1981..	**15**	**32.7**	**490**	**33.3**	**163**
			OAHU		
1977..	25	27.6	690	36.5	252
1978..	35	27.4	960	38.6	371
1979..	30	28.3	850	45.8	389
1980..	29	27.2	790	38.8	307
1981..	**30**	**27.3**	**820**	**37.4**	**307**

[1/] Sum of island estimates may not add to State total due to rounding.

[2/] Hawaii, Maui, and Molokai combined to avoid disclosure of individual operations.

GINGER ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Acreage harvested	Yield per acre	Production	Out-of-State sales	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
1977	39	28.5	1,110	NA	65.4	726
1978	55	24.4	1,340	NA	61.1	819
1979	75	24.8	1,860	1,155	61.2	1,138
1980	40	40.2	1,610	1,420	67.7	1,090
1981	**64**	**44.7**	**2,860**	**2,620**	**76.2**	**2,179**

NA = Not available.

LETTUCE (HEAD, SEMI-HEAD): Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE 1/		
1977..	530	18.5	9,800	19.1	1,872
1978..	590	17.5	10,300	20.9	2,153
1979..	650	14.5	9,400	21.1	1,983
1980..	660	15.0	9,900	19.7	1,950
1981..	680	15.0	10,200	22.7	2,315
			HAWAII		
1977..	185	18.4	3,405	15.5	528
1978..	235	17.5	4,120	16.9	696
1979..	330	12.5	4,140	17.3	716
1980..	350	12.6	4,400	16.1	708
1981..	300	14.3	4,300	17.6	757
			MAUI/MOLOKAI		
1977..	205	20.4	4,185	17.1	716
1978..	215	18.8	4,035	19.6	791
1979..	190	17.3	3,280	19.7	646
1980..	190	18.2	3,450	18.3	631
1981..	260	15.0	3,900	21.8	850
			OAHU		
1977..	140	15.8	2,205	28.5	628
1978..	140	15.2	2,135	31.2	666
1979..	130	15.2	1,970	31.5	621
1980..	120	17.1	2,050	29.8	611
1981..	120	16.7	2,000	35.4	708

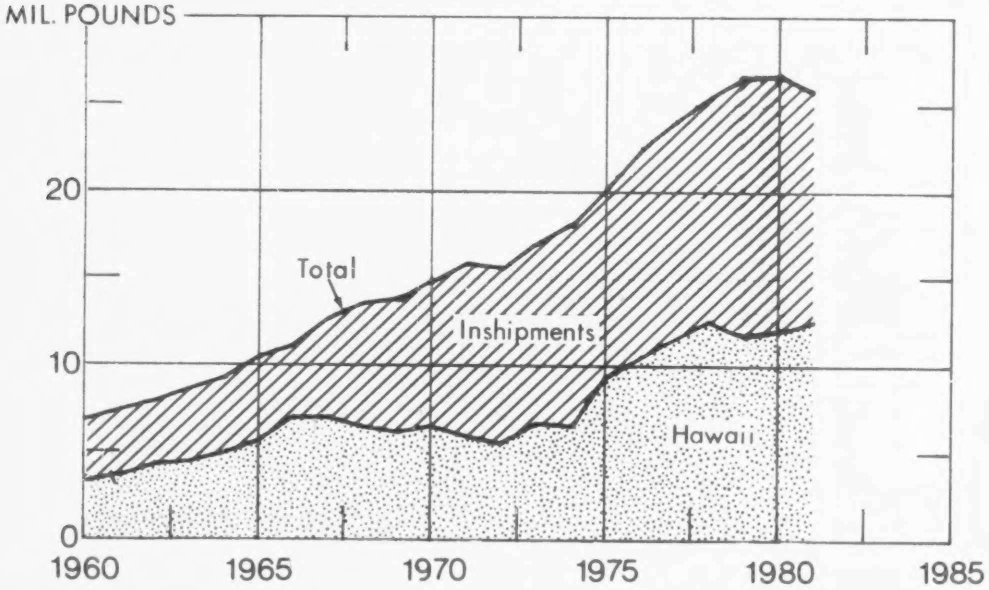
1/ Sum of island estimates may not add to State total due to rounding.

LETTUCE (HEAD, SEMI-HEAD): Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production[1]					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	46	44	53	39	59	779	807	744	485	814	20.2	20.4	25.4	23.6	22.5
February.........	48	45	46	41	56	805	803	441	551	798	21.2	22.7	30.0	24.0	21.5
March............	46	49	50	55	60	961	1,101	585	801	953	20.1	17.9	28.4	19.5	21.1
April............	46	58	52	48	62	821	1,159	813	751	927	19.9	20.1	18.0	20.7	18.7
May..............	42	51	59	62	62	865	1,026	987	975	1,035	18.8	24.0	17.9	19.1	18.9
June.............	41	44	55	61	58	851	796	832	895	966	17.7	22.5	17.4	18.4	19.5
July.............	42	47	59	62	54	897	818	955	962	851	18.2	22.2	18.6	17.1	22.8
August...........	45	47	59	62	57	849	899	911	933	668	19.5	20.0	19.5	18.0	25.2
September........	43	47	55	57	52	750	816	884	922	752	20.7	18.7	20.3	19.6	26.0
October..........	46	54	55	56	51	793	829	739	905	814	20.7	19.8	21.4	21.5	25.4
November.........	40	53	54	58	55	737	520	737	912	823	21.2	21.6	22.3	19.6	25.7
December.........	45	51	53	59	54	687	716	762	808	799	21.4	22.2	22.3	19.6	28.2
Total or average.	530	590	650	660	680	9,800	10,300	9,400	9,900	10,200	19.1	20.9	21.1	19.7	22.7

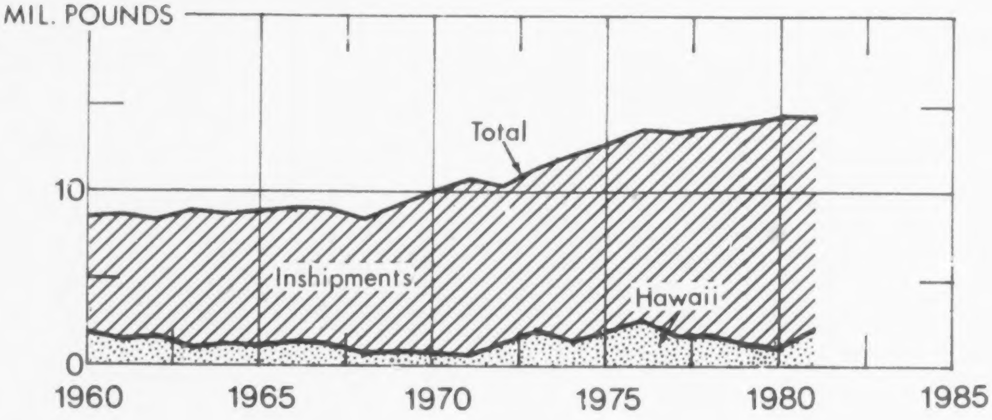
1/ Sum of monthly estimates may not add to State total due to rounding.

MARKET SUPPLY: Fresh Market Lettuce, State of Hawaii, 1960-81



HARS

MARKET SUPPLY: Fresh Market Dry Onions, State of Hawaii, 1960-81



HARS

DRY ONIONS: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
			STATE 1/		
1977..	85	21.8	1,850	35.6	659
1978..	75	20.0	1,500	36.3	544
1979..	70	17.0	1,190	45.0	536
1980..	80	14.4	1,150	60.8	699
1981..	**120**	**16.5**	**1,980**	**51.4**	**1,018**
			HAWAII/KAUAI/OAHU 2/		
1977..	8	16.2	130	40.1	52
1978..	10	15.0	150	40.8	61
1979..	10	12.0	120	47.2	57
1980..	5	14.0	70	58.5	41
1981..	**10**	**13.0**	**130**	**52.7**	**69**
			MAUI/MOLOKAI		
1977..	75	22.9	1,720	35.3	607
1978..	65	20.8	1,350	35.8	483
1979..	60	17.8	1,070	44.8	479
1980..	75	14.4	1,080	60.9	658
1981..	**110**	**16.8**	**1,850**	**51.3**	**949**

1/ Sum of island estimates may not add to State total due to rounding.
2/ Hawaii, Kauai, and Oahu combined to avoid disclosure of individual operations.

DRY ONIONS: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production					Farm price				
	1977	1978	1979	1960	1981	1977	1978	1979	1960	1981	1977	1978	1979	1980	1981
	----------Acres----------					---------1,000 pounds---------					-------Cents per pound-------				
January..........	7	6	6	5	**6**	127	100	72	83	**117**	36.4	43.0	56.4	57.9	**61.9**
February.........	8	8	8	5	**7**	143	153	77	75	**118**	39.4	44.2	53.4	62.1	**62.0**
March............	9	10	3	5	**8**	182	242	43	87	**215**	40.3	38.2	61.1	65.5	**58.6**
April............	11	10	9	5	**11**	222	246	124	74	**291**	38.5	35.2	48.0	59.0	**45.5**
May..............	10	11	8	6	**14**	238	220	155	84	**240**	30.8	25.7	31.1	69.5	**41.7**
June.............	10	8	7	10	**14**	208	165	144	148	**212**	29.5	23.3	34.5	60.5	**36.8**
July.............	7	4	6	11	**11**	172	74	125	147	**157**	27.8	28.8	35.7	51.0	**41.7**
August...........	5	4	4	5	**8**	137	73	71	57	**113**	32.5	36.4	41.3	55.5	**47.1**
September........	4	3	4	5	**11**	109	40	79	84	**97**	38.5	43.9	46.9	54.5	**55.3**
October..........	4	5	4	5	**8**	117	99	67	82	**103**	40.5	49.4	50.6	63.6	**61.4**
November.........	4	3	4	10	**10**	113	51	103	115	**129**	41.3	50.1	53.5	69.4	**64.1**
December.........	4	3	7	8	**12**	82	37	130	114	**188**	41.6	52.9	54.0	62.6	**62.8**
Total or average.	85	75	70	80	**120**	1,850	1,500	1,190	1,150	**1,980**	35.6	36.3	45.0	60.8	**51.4**

1/ Sum of monthly estimates may not add to State total due to rounding.

GREEN ONIONS: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1977..	90	9.3	835	60.7	507
1978..	100	9.8	980	70.5	691
1979..	120	9.5	1,135	71.9	816
1980..	90	10.0	900	72.5	652
1981..	75	9.9	740	76.5	566
			HAWAII/KAUAI		
1977..	5	12.0	60	44.7	27
1978..	5	14.0	70	47.1	33
1979..	8	8.8	70	53.7	38
1980..	7	11.4	80	65.5	52
1981..	8	8.8	70	69.2	48
			MAUI/MOLOKAI		
1977..	10	12.0	120	56.9	68
1978..	10	11.5	115	64.4	74
1979..	12	9.6	115	70.8	81
1980..	8	11.2	90	72.6	65
1981..	7	10.0	70	78.2	55
			OAHU		
1977..	75	8.7	655	62.9	412
1978..	85	9.4	795	73.4	584
1979..	100	9.5	950	73.4	697
1980..	75	9.7	730	73.3	535
1981..	60	10.0	600	77.2	463

GREEN ONIONS: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested					Production					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	7	7	9	8	8	54	74	72	64	37	60.0	71.4	80.7	83.9	86.0
February.........	7	7	11	7	4	57	76	82	75	40	61.5	71.4	82.8	81.7	90.6
March............	7	8	10	8	6	68	91	75	65	68	63.2	69.8	81.2	84.8	88.1
April............	8	9	8	7	5	62	96	94	77	74	61.9	68.9	74.7	79.9	74.9
May..............	8	10	11	8	7	91	103	112	89	72	56.9	62.1	62.7	69.9	74.8
June.............	9	10	11	8	6	85	98	111	81	76	56.2	62.0	59.7	66.0	64.6
July.............	8	8	12	8	6	83	98	109	80	73	54.6	64.6	59.4	63.8	59.9
August...........	8	8	10	7	6	87	88	108	78	63	56.1	69.2	66.6	60.4	61.1
September........	8	8	10	8	7	71	61	94	84	64	59.5	75.3	72.1	62.2	68.8
October..........	6	9	10	7	5	48	65	85	76	54	67.4	80.5	74.5	68.8	83.3
November.........	7	7	9	6	8	60	56	94	61	52	68.4	77.3	77.6	78.1	92.5
December.........	7	9	9	8	7	69	74	99	70	67	70.5	85.7	82.5	78.1	90.6
Total or average.	90	100	120	90	75	835	980	1,135	900	740	60.7	70.5	71.9	72.5	76.5

LOTUS ROOT: Acreage, yield, production, price, and value, State of Hawaii, 1977-81[1]

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
1977..	30	5.0	150	84.1	126
1978..	35	5.4	190	85.7	163
1979..	40	5.2	210	87.4	184
1980..	35	5.4	190	96.7	184
1981..	35	5.1	180	98.5	177

[1] State production all on island of Oahu.

PUMPKINS: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
1977..	22	13.4	295	16.6	49
1978..	25	13.6	340	19.9	68
1979..	25	12.0	300	23.2	70
1980..	20	14.8	295	20.8	61
1981..	25	13.2	330	21.9	72

WATERCRESS: Acreage, production, price, and value, State of Hawaii, 1977-81

Year	Acreage in crop	Production	Farm price	Value of sales
	Acres	1,000 pounds	Cents per pound	1,000 dollars
1977.....	25	1,380	30.0	414
1978.....	31	1,545	36.0	556
1979.....	32	1,670	41.1	686
1980.....	32	1,420	48.3	686
1981.....	30	1,130	63.3	715

GREEN PEPPERS: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE[1]		
1977..	70	15.3	1,070	36.4	389
1978..	60	13.7	820	46.0	377
1979..	65	13.7	890	41.1	366
1980..	45	13.8	620	42.7	265
1981..	55	13.8	760	54.4	413
			HAWAII		
1977..	11	19.1	210	30.5	64
1978..	11	13.2	145	41.8	61
1979..	17	10.0	170	36.9	63
1980..	13	11.2	145	39.8	58
1981..	15	11.7	175	45.6	80
			KAUAI		
1977..	20	12.3	245	34.7	85
1978..	14	13.9	195	43.8	85
1979..	22	17.5	385	41.4	159
1980..	15	16.7	250	42.3	106
1981..	17	15.6	265	56.4	149
			MAUI/MOLOKAI		
1977..	21	16.0	335	37.7	126
1978..	16	11.2	180	42.8	77
1979..	11	15.9	175	42.6	75
1980..	12	14.2	170	45.3	77
1981..	14	15.7	220	51.2	113
			OAHU		
1977..	16	17.5	280	40.6	114
1978..	19	15.8	300	51.4	154
1979..	15	10.7	160	43.3	69
1980..	5	11.0	55	44.5	24
1981..	9	11.1	100	71.4	71

[1] Sum of island estimates may not add to State total due to rounding.

GREEN PEPPERS: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	18	21	20	9	12	75	45	48	33	53	39.6	37.1	42.8	50.6	46.6
February.........	20	23	13	14	12	71	58	48	26	60	40.0	31.4	39.1	48.0	53.0
March............	23	24	14	13	12	91	71	56	52	43	46.1	32.1	41.7	42.4	79.2
April............	24	24	19	13	12	85	63	81	42	62	49.6	47.8	37.1	42.6	94.9
May..............	21	32	18	12	14	114	68	92	81	60	38.7	60.0	48.2	46.1	69.3
June.............	22	27	25	14	16	74	97	113	65	72	36.0	60.5	49.9	45.6	52.3
July.............	25	24	29	17	14	102	71	100	83	58	36.3	57.7	40.5	35.6	53.5
August...........	24	22	21	15	13	99	61	76	39	57	30.9	43.3	41.7	41.8	51.4
September........	23	22	21	13	17	104	73	102	37	75	27.8	39.7	30.4	42.4	45.0
October..........	20	21	19	13	20	95	105	76	61	83	28.6	43.4	32.5	35.3	34.1
November.........	24	20	19	13	21	89	49	42	44	65	30.6	41.8	42.8	43.7	39.4
December.........	24	19	14	14	21	71	59	56	57	72	35.6	46.6	47.3	46.7	49.5
Total or average.	70	60	65	45	55	1,070	820	890	620	760	36.4	46.0	41.1	42.7	54.4

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.

ROMAINE: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1977..	90	21.2	1,905	16.6	316
1978..	120	19.5	2,345	17.0	399
1979..	130	17.5	2,270	16.5	375
1980..	130	16.7	2,170	16.5	358
1981..	130	17.8	2,320	18.7	434
			HAWAII		
1977..	50	23.5	1,175	16.1	189
1978..	70	19.1	1,340	16.0	214
1979..	80	17.0	1,360	15.0	204
1980..	75	16.9	1,270	15.4	196
1981..	75	18.1	1,360	17.6	239
			MAUI		
1977..	40	18.3	730	17.4	127
1978..	50	20.1	1,005	18.4	185
1979..	50	18.2	910	18.8	171
1980..	55	16.4	900	18.0	162
1981..	55	17.5	960	20.3	195

ROMAINE: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production[1]					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	7	7	11	9	11	138	150	177	116	188	18.7	16.1	19.4	18.2	18.0
February.........	9	9	12	10	11	165	180	121	151	190	20.2	20.2	21.5	19.1	18.6
March............	9	11	13	12	11	180	219	186	189	209	17.8	17.9	22.0	18.6	19.2
April............	9	10	10	8	11	193	206	196	125	215	16.2	17.4	13.2	18.7	16.9
May..............	8	9	13	13	13	167	194	226	220	227	15.2	22.5	13.3	18.2	16.2
June.............	8	9	12	10	12	162	175	235	184	209	15.0	19.2	13.4	15.7	15.8
July.............	8	9	10	12	11	163	173	184	217	204	15.6	19.1	13.0	14.4	17.9
August...........	8	11	11	11	10	138	242	207	203	164	15.8	15.0	14.6	13.8	17.9
September........	6	11	10	10	12	162	213	170	170	207	16.1	13.8	15.9	14.6	22.1
October..........	6	11	10	11	8	144	217	185	195	183	15.5	13.2	19.3	16.0	20.2
November.........	6	12	9	12	9	148	187	186	196	176	16.1	14.8	18.6	16.4	19.7
December.........	6	11	9	12	11	145	189	197	204	148	16.6	16.7	17.6	16.0	24.4
Total or average.	90	120	130	130	130	1,905	2,345	2,270	2,170	2,320	16.6	17.0	16.5	16.5	18.7

[1] Sum of monthly estimates may not add to State total due to rounding.

SQUASH, ITALIAN: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE [1]		
1977..	26	14.4	375	25.4	95
1978..	25	14.0	350	28.5	100
1979..	20	11.0	220	30.1	66
1980..	25	12.0	300	30.7	92
1981..	**45**	**12.0**	**540**	**30.7**	**166**
			HAWAII		
1977..	5	14.0	70	24.1	17
1978..	3	13.3	40	28.8	12
1979..	8	10.0	80	29.0	23
1980..	11	10.9	120	29.3	35
1981..	**16**	**11.9**	**190**	**30.5**	**58**
			KAUAI/OAHU [2]		
1977..	3	15.0	45	30.5	14
1978..	4	11.2	45	30.7	14
1979..	2	10.0	20	30.6	6
1980..	2	15.0	30	36.4	11
1981..	**3**	**10.0**	**30**	**37.0**	**11**
			MAUI		
1977..	18	14.4	260	24.8	64
1978..	18	14.7	265	28.1	74
1979..	10	12.0	120	30.8	37
1980..	12	12.5	150	31.0	46
1981..	**26**	**12.3**	**320**	**30.2**	**97**

[1] Sum of island estimates may not add to State total due to rounding.

[2] Oahu combined with Kauai to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	1,000 pounds	1,000 pounds	Cents per pound	1,000 dollars
			STATE 1/		
1977..	95	12.5	1,190	22.0	262
1978..	130	11.7	1,520	20.4	310
1979..	150	11.6	1,740	25.0	435
1980..	100	13.0	1,300	27.7	360
1981..	90	13.9	1,250	26.8	335
			HAWAII		
1977..	3	15.0	45	18.0	8
1978..	30	11.0	330	18.4	61
1979..	40	7.0	280	21.2	59
1980..	2/12	2/12.5	2/150	2/23.8	2/36
1981..	2/10	2/13.0	2/130	2/25.0	2/33
			KAUAI		
1977..	5	16.0	80	19.8	16
1978..	8	12.5	100	21.5	22
1979..	7	14.3	100	27.0	27
1980..	2/	2/	2/	2/	2/
1981..	2/	2/	2/	2/	2/
			MAUI/MOLOKAI		
1977..	27	14.1	380	21.3	81
1978..	30	14.7	440	19.8	87
1979..	38	15.0	570	21.0	120
1980..	43	15.3	660	24.0	158
1981..	50	14.2	710	24.1	171
			OAHU		
1977..	60	11.4	685	22.9	157
1978..	60	10.8	650	21.6	140
1979..	65	12.2	790	29.0	229
1980..	45	10.9	490	33.8	166
1981..	30	13.7	410	31.9	131

1/ Sum of island estimates may not add to State total due to rounding.

2/ Kauai combined with Hawaii to avoid disclosure of individual operations.

SWEETPOTATOES: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested					Production					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	Acres					1,000 pounds					Cents per pound				
January..........	5	10	11	7	7	75	115	95	86	88	20.6	23.2	21.4	26.4	28.2
February.........	6	10	11	8	6	75	108	101	97	84	20.6	22.3	23.8	28.7	27.5
March............	7	8	11	10	6	82	98	139	118	94	23.1	21.8	25.1	27.3	26.1
April............	8	9	11	7	7	93	92	127	102	104	24.0	22.6	24.1	26.8	25.6
May..............	6	7	12	8	7	109	104	132	106	108	23.7	21.1	25.2	28.4	27.1
June.............	8	10	12	7	6	121	134	148	94	89	23.2	21.5	25.1	27.7	28.4
July.............	6	15	13	8	8	109	167	156	109	97	22.1	22.2	25.6	27.2	26.1
August...........	10	12	14	8	8	129	140	160	105	112	20.7	19.1	25.1	26.4	27.9
September........	9	12	14	9	7	108	142	174	119	103	20.9	18.4	25.7	27.5	26.1
October..........	9	11	14	8	9	90	129	197	115	125	21.5	17.0	25.3	28.5	26.7
November.........	11	12	15	10	8	99	149	171	129	116	21.7	18.1	25.3	28.5	26.7
December.........	10	12	12	10	11	100	142	140	120	130	21.7	18.6	25.9	28.5	25.4
Total or average.	95	130	150	100	90	1,190	1,520	1,740	1,300	1,250	22.0	20.4	25.0	27.7	26.8

TOMATOES: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
		STATE 1/			
1977..	240	25.0	6,000	30.8	1,848
1978..	250	28.0	7,000	28.6	2,002
1979..	270	23.0	6,200	35.0	2,170
1980..	270	28.5	7,700	31.0	2,387
1981..	280	29.5	8,300	35.3	2,930
		HAWAII			
1977..	105	31.1	3,265	29.9	976
1978..	105	40.0	4,205	28.0	1,177
1979..	120	30.4	3,650	36.5	1,332
1980..	130	41.0	5,330	30.8	1,642
1981..	125	41.4	5,170	35.6	1,841
		KAUAI			
1977..	14	15.4	215	32.8	71
1978..	15	14.0	210	32.0	67
1979..	10	16.0	160	37.3	60
1980..	10	15.0	150	42.8	64
1981..	8	16.2	130	46.6	61
		MAUI/MOLOKAI			
1977..	95	21.7	2,065	29.6	611
1978..	110	20.1	2,210	27.6	610
1979..	120	17.5	2,100	31.5	662
1980..	120	16.6	1,990	29.6	589
1981..	135	20.1	2,720	32.6	887
		OAHU			
1977..	25	18.4	460	41.4	190
1978..	20	18.8	375	39.4	148
1979..	20	14.5	290	40.1	116
1980..	10	23.0	230	40.1	92
1981..	12	23.3	280	50.4	141

1/ Sum of island estimates may not add to State total due to rounding.

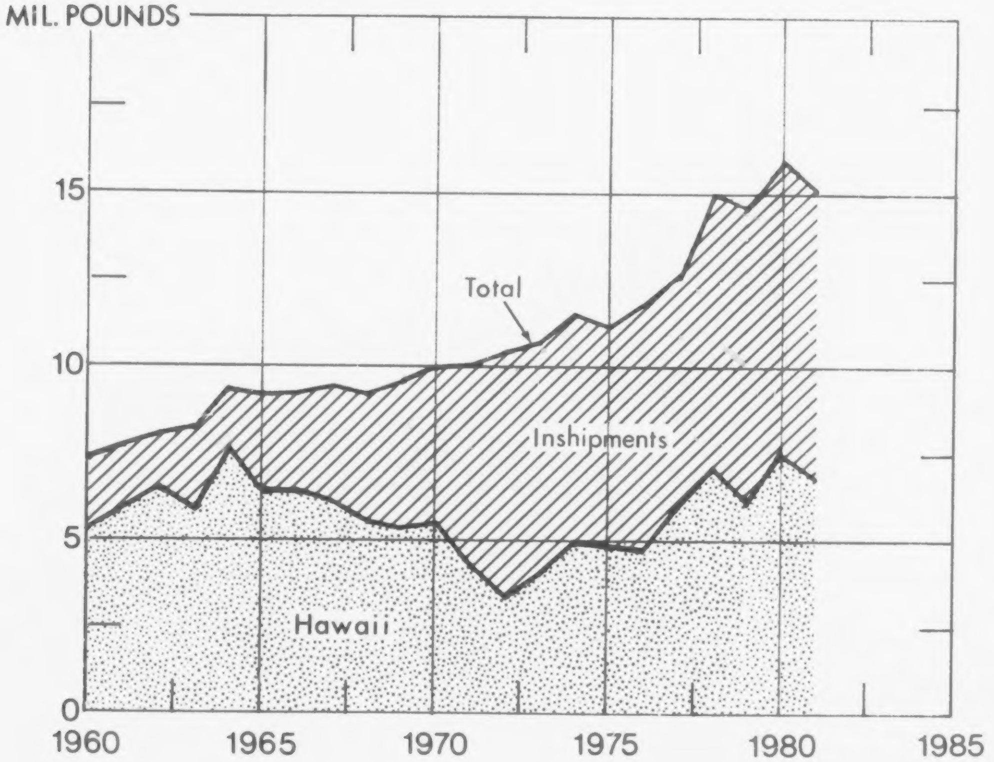
TOMATOES: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production[2]					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
-	-----------Acres-----------					-----------1,000 pounds-----------					-------Cents per pound-------				
January	36	45	60	49	47	461	552	372	450	695	30.9	31.1	41.8	41.5	41.2
February	41	40	52	41	53	532	454	334	471	582	32.8	28.3	35.9	39.7	47.0
March	55	42	43	38	53	640	569	254	522	678	32.2	30.2	38.6	33.6	48.4
April	60	47	42	43	54	673	658	247	587	787	32.0	30.7	43.4	31.9	44.6
May	42	46	40	44	58	486	655	430	584	917	30.4	32.8	40.9	32.2	33.6
June	40	38	49	40	59	513	616	757	785	847	29.9	31.7	36.8	32.3	25.8
July	42	42	41	50	46	494	588	665	769	730	28.5	27.2	30.6	25.9	27.8
August	29	48	43	47	46	495	554	566	626	610	28.6	25.5	28.7	30.0	29.8
September	25	45	41	39	46	286	627	560	633	514	31.1	20.6	30.7	28.2	32.9
October	37	42	48	44	40	392	522	671	710	517	29.1	23.3	28.9	30.2	32.4
November	47	44	57	38	49	429	596	678	705	659	31.1	27.9	34.7	28.0	31.7
December	39	53	60	37	52	604	609	670	859	764	31.7	32.8	40.2	27.1	30.3
Total or average	240	250	270	270	280	6,000	7,000	6,200	7,700	8,300	30.8	28.6	35.0	31.0	35.3

[1] Sum of monthly data exceeds total because harvest period longer than 1 month.

[2] Sum of monthly estimates may not add to annual total due to rounding.

MARKET SUPPLY: Fresh Market Tomatoes, State of Hawaii, 1960-81



HARS

MINOR CROPS: Acreage, yield, production, price, and value, State of Hawaii, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
		BITTERMELON			
1977..	26	17.3	450	40.9	184
1978..	22	15.0	330	54.7	181
1979..	26	12.3	320	52.1	167
1980..	14	15.7	220	70.4	155
1981..	25	11.6	290	65.2	189
		ORIENTAL SQUASH (HYOTAN AND TOGAN)			
1977..	38	14.5	550	17.7	97
1978..	45	16.7	750	19.3	145
1979..	45	17.3	780	18.0	140
1980..	45	16.2	730	18.5	135
1981..	55	14.0	770	17.4	134
		PARSLEY			
1977..	15	11.0	165	55.8	92
1978..	16	13.1	210	56.0	118
1979..	13	13.1	170	57.8	98
1980..	18	13.9	250	67.5	169
1981..	20	14.0	280	68.7	192
		RADISH			
1977..	30	11.5	345	23.6	81
1978..	20	11.5	230	25.3	58
1979..	31	11.6	360	33.3	120
1980..	25	11.8	295	33.3	98
1981..	20	12.0	240	34.0	82
		CHINESE PEAS			
1977..	20	3.8	75	150.7	113
1978..	17	5.0	85	187.0	159
1979..	21	4.8	100	187.0	187
1980..	17	4.1	70	183.9	129
1981..	16	4.4	70	186.9	131

WATERMELONS: Acreage, yield, production, price, and value, by islands, 1977-81

Year	Acreage harvested	Yield per acre	Production	Farm price	Value of sales
	Acres	-------1,000 pounds-------		Cents per pound	1,000 dollars
			STATE 1/		
1977..	210	9.9	2,075	19.6	407
1978..	190	9.8	1,870	19.2	359
1979..	125	9.0	1,130	23.7	268
1980..	130	10.4	1,350	23.2	313
1981..	150	10.7	1,610	25.7	414
			HAWAII		
1977..	50	4.2	210	15.5	33
1978..	40	6.6	265	18.0	48
1979..	20	6.5	130	17.0	22
1980..	30	7.3	220	18.7	41
1981..	30	7.0	210	20.0	42
			KAUAI		
1977..	12	12.1	145	19.1	28
1978..	20	12.5	250	18.5	46
1979..	5	12.0	60	17.6	11
1980..	7	12.9	90	23.4	21
1981..	7	11.4	80	28.0	22
			MAUI/MOLOKAI		
1977..	60	11.3	680	18.1	123
1978..	60	12.8	765	17.2	132
1979..	30	12.7	380	20.2	77
1980..	28	12.1	340	21.4	73
1981..	43	13.0	560	23.0	129
			OAHU		
1977..	90	11.6	1,040	21.4	223
1978..	70	8.4	590	22.6	133
1979..	70	8.0	560	28.3	158
1980..	65	10.8	700	25.4	178
1981..	70	10.9	760	29.1	221

1/ Sum of island estimates may not add to State total due to rounding.

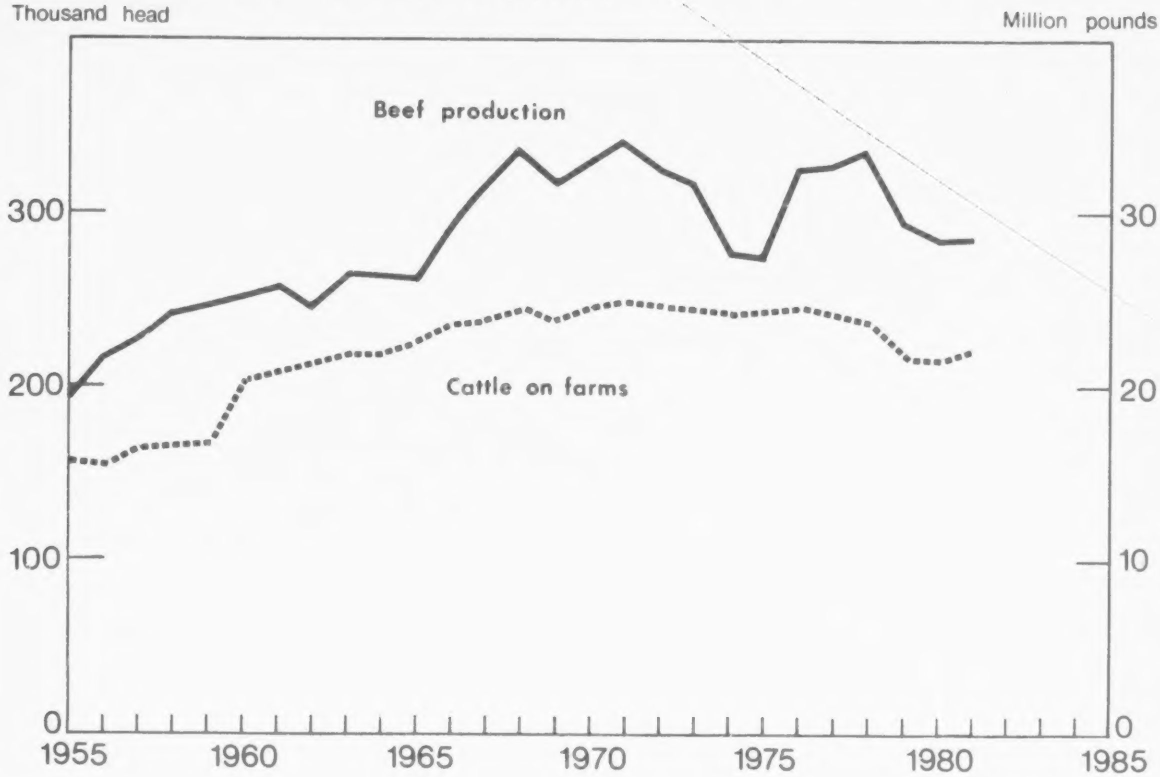
WATERMELONS: Acreage, production, and price, by months, State of Hawaii, 1977-81

Month	Acreage harvested[1]					Production					Farm price				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	-----------Acres-----------					-----------1,000 pounds-----------					-------Cents per pound-------				
January..........	3	19	7	3	4	8	70	23	5	20	17.7	16.5	20.6	20.0	19.0
February.........	1	10	3	2	3	3	54	7	10	15	17.5	16.8	18.8	20.0	19.0
March............	2	8	1	2	7	4	41	3	10	36	17.5	22.7	18.8	20.0	23.5
April............	2	13	1	6	14	8	115	4	18	77	22.2	22.0	18.8	24.6	26.4
May..............	38	14	12	12	20	291	49	118	150	125	24.3	23.6	33.4	21.0	27.9
June.............	58	43	33	16	26	335	249	165	90	334	20.5	20.9	30.2	24.3	26.0
July.............	28	30	44	18	26	174	256	224	113	124	18.9	20.0	22.7	24.4	25.5
August...........	31	17	19	24	30	201	99	160	287	277	17.7	21.4	20.2	24.4	26.0
September........	53	37	18	17	37	639	405	226	356	274	18.5	18.4	20.4	23.0	24.4
October..........	37	42	17	14	32	195	364	117	195	240	17.9	17.0	20.3	22.8	27.5
November.........	16	16	12	15	8	124	97	64	81	56	18.8	17.8	22.1	23.6	23.2
December.........	16	12	3	5	3	93	71	19	35	32	18.3	19.6	22.5	19.8	22.5
Total or average.	210	190	125	130	150	2,075	1,870	1,130	1,350	1,610	19.6	19.2	23.7	23.2	25.7

1/ Sum of monthly data exceeds total because harvest period longer than 1 month.

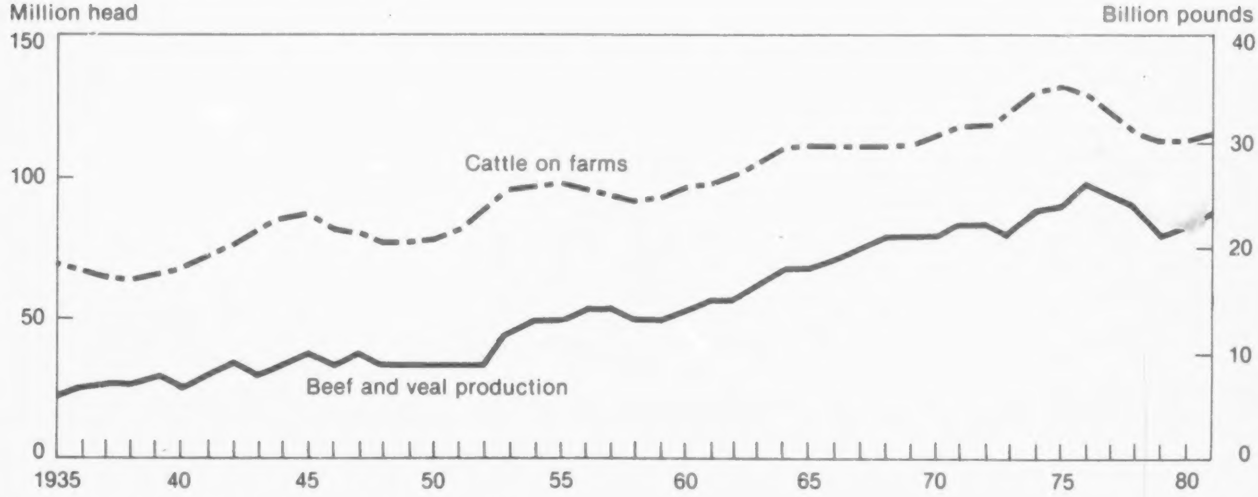
1981 LIVESTOCK SUMMARY

Cash receipts from **LIVESTOCK** marketings totaled a record high $88.1 million in 1981 as generally higher prices boosted returns to Hawaii's producers. Although higher prices were mainly responsible for the 8 percent rise in value, increased production also contributed to the record. The **DAIRY** industry regained its number one position among livestock enterprises with producer returns from milk sales rising 12 percent from 1980 to a new high of $30.3 million. Milk production declined 1 percent, a result of fewer cows. Production per cow increased slightly. **BEEF** production declined for the third consecutive year. With an average price increase of 90 cents per hundredweight, returns to cattle ranchers of $28.4 million compared with $28.1 million in 1980. The slight increase in cash receipts was the result of increased fed cattle slaughter as well as higher average prices than in the previous year. The cattle and calf inventory increased by 8,000 head to a total of 228,000 head. Cash receipts from the sale of **EGGS, BROILERS** and **CHICKENS** totaled $20.5 million, 13 percent more than in the previous year. Egg production increased slightly from 220.5 million to 221.3 million eggs. This production increase coupled with higher egg prices brought a 9 percent increase in value of egg sales totaling $15.2 million. The annual average number of layers decreased 55,000 birds to 980,000 on December 1, 1981. This decline in the laying flock was more than offset by an increase in the average production per layer. Broiler sales at $5.1 million were $1.2 million above a year earlier as a result of a 17 percent production increase and higher prices. Production of spent hens increased 4 percent to bring $243,000 compared to $240,000 from a year ago, although the price received had decreased slightly. Increased production and prices for **HOGS** resulted in a 12 percent rise in cash receipts to a record high of $8.4 million. Hog marketings were up 9 percent while pork prices increased an average of $2.40 per hundred pounds live weight.



Hawaii Cattle Numbers and Beef Production

HARS



U.S. Cattle Numbers and Beef Production

Cattle and calves on farms January 1. 1981 production forecast.

USDA

CATTLE AND CALVES: January 1 inventory by sex classes and weight, by islands, 1978-82

Year	All cattle and calves	All cows and heifers that have calved			Heifers 500 pounds and over				Steers 500 lbs. and over	Bulls 500 lbs. and over	Steers, heifers, and bulls under 500 lbs.
		Total	Beef cows	Milk cows	Total	Beef cow replacements	Milk cow replacements	Other			
					1,000 head						
					STATE [1]						
1978..	234	93	80	13	44	17	8	19	31	7	59
1979..	215	91	78	13	40	15	8	17	25	7	52
1980..	213	96	83	13	39	16	7	16	25	7	46
1981..	220	93	80	13	42	19	7	16	23	7	55
1982..	228	93	80	13	46	21	8	17	27	8	54
					HAWAII						
1978..	128.6	50.7	49.3	1.4	23.8	12.9	3.8	7.1	12.8	4.4	36.9
1979..	119.9	51.9	50.6	1.3	21.2	10.5	4.0	6.7	11.8	4.8	30.2
1980..	121.0	57.9	56.4	1.5	22.8	11.5	4.0	7.3	11.4	4.6	24.3
1981..	127.2	53.8	52.2	1.6	24.8	13.9	3.0	7.9	10.6	5.0	33.0
1982..	132.3	54.8	53.1	1.7	26.3	15.8	3.3	7.2	11.6	5.4	34.2
					KAUAI						
1978..	21.1	8.1	7.7	.4	3.3	1.2	.2	1.9	3.4	.6	5.7
1979..	18.0	6.6	6.1	.5	3.1	1.8	.1	1.2	2.2	.5	5.6
1980..	18.1	6.9	6.4	.5	2.9	1.5	.2	1.2	2.0	.5	5.8
1981..	18.4	7.9	7.4	.5	2.3	1.1	.2	1.0	1.7	.5	6.0
1982..	17.0	7.2	6.8	.4	2.6	1.2	.2	1.2	1.9	.5	4.8
					MAUI						
1978..	41.4	17.7	16.7	1.0	6.3	2.4	.4	3.5	4.2	1.4	11.8
1979..	37.5	16.7	15.6	1.1	5.6	1.9	.5	3.2	4.4	1.3	9.5
1980..	36.0	16.5	15.3	1.2	6.2	2.5	.5	3.2	4.6	1.1	7.6
1981..	38.7	16.3	15.1	1.2	6.8	3.1	.5	3.2	4.7	1.2	9.7
1982..	39.5	16.0	14.9	1.1	7.4	3.0	.5	3.9	5.6	1.2	9.3
					MOLOKAI/LANAI						
1978..	7.1	3.7	3.7	*	1.2	.2	.2	.8	.8	.3	1.1
1979..	6.9	3.9	3.9	0	.8	.5	.3	*	.7	.2	1.3
1980..	6.5	3.6	3.6	0	.6	.4	.1	.1	.4	.2	1.7
1981..	7.2	3.8	3.8	0	.8	.4	0	.4	.5	.2	1.9
1982..	6.5	3.7	3.7	0	.5	.3	0	.2	.2	.2	1.9
					OAHU						
1978..	35.8	12.8	2.6	10.2	9.3	.3	3.3	5.7	9.8	.3	3.6
1979..	32.7	11.9	1.8	10.1	9.3	.3	3.1	5.9	5.9	.2	5.4
1980..	31.4	11.6	1.7	9.9	6.5	.3	1.7	4.5	6.3	.2	6.8
1981..	28.5	11.6	1.7	9.9	6.9	.3	3.4	3.2	5.3	.2	4.5
1982..	32.7	11.3	1.8	9.5	9.2	.5	4.0	4.7	7.8	.2	4.2

* = Less than 500. [1] State totals may not add due to rounding.

CATTLE: Number of operations, January 1, by size group, by islands, 1977-81[1]

Year	Hawaii		Kauai/Niihau		Maui		Molokai		Oahu		State	
	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle	Total	20+ cattle
						Number						
1977..........	385	205	150	70	235	100	20	10	110	55	900	440
1978..........	355	195	155	70	190	80	15	10	85	55	800	410
1979..........	355	190	155	70	190	80	15	10	85	50	800	400
1980..........	360	210	150	80	190	90	20	10	80	50	800	440
1981..........	350	195	140	70	175	80	15	10	70	45	750	400

[1] Difference between "Total" and "20+" is operations having 1-19 head of cattle (dairy and/or beef).

CATTLE AND CALVES: Number sold, pounds, price, and value, by islands, 1977-81

Year	Number sold[1]	Pounds sold (live weight)[2]	Farm price (live weight)[3]	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
			STATE	
1977	65	59,310	31.70	18,837
1978	69	62,300	39.10	24,370
1979	60	55,015	51.50	28,356
1980	55	52,475	53.50	28,074
1981	56	52,275	54.40	28,438
			HAWAII	
1977	41.5	36,989	31.00	11,485
1978	45.9	41,035	39.00	16,004
1979	37.0	32,971	52.50	17,323
1980	34.5	33,153	54.20	17,973
1981	35.5	33,173	54.50	18,092
			KAUAI	
1977	5.4	5,328	34.70	1,848
1978	6.1	5,775	39.00	2,252
1979	4.8	4,582	46.60	2,137
1980	6.0	5,765	54.10	3,118
1981	4.6	4,266	53.80	2,295
			MAUI	
1977	13.2	12,127	33.70	4,087
1978	11.8	10,246	40.80	4,181
1979	12.3	11,553	51.70	5,971
1980	10.6	9,510	52.90	5,033
1981	10.3	9,161	55.30	5,067
			MOLOKAI	
1977	1.9	1,709	33.80	577
1978	2.2	2,039	42.60	869
1979	2.5	2,377	50.80	1,207
1980	1.3	1,124	48.70	547
1981	2.4	2,352	56.60	1,331
			OAHU	
1977	3.0	3,157	26.60	840
1978	3.0	3,205	33.20	1,064
1979	3.4	3,532	48.60	1,718
1980	2.6	2,923	48.00	1,403
1981	3.2	3,323	49.70	1,653

1/ Includes custom slaughter for home use on farms where produced and out-of-State sales of cattle and calves; but, excludes interfarm sales. State totals may not add due to rounding.

2/ Excludes custom slaughter for use on farms where produced.

3/ Prices are equivalent delivered slaughterhouse for sales on island of production and delivered shippers' dock for interisland and out-of-State sales.

CATTLE: Number of feedlot slaughter cattle sold, pounds, price, and value, by islands, 1977-81[1]

Year	Number sold[2]	Pounds sold (live weight)[3]	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
			STATE	
1977	36.0	35,658	35.20	12,555
1978	38.3	38,969	43.20	16,835
1979	30.3	30,188	56.40	17,031
1980	26.8	27,592	59.80	16,486
1981	29.2	29,449	60.10	17,711
			HAWAII	
1977	23.1	22,873	34.50	7,931
1978	26.7	27,235	42.80	11,657
1979	18.8	18,651	56.50	10,538
1980	17.6	18,439	59.50	10,971
1981	20.2	20,572	59.90	12,323
			KAUAI/NIIHAU	
1977	2.1	2,198	35.60	783
1978	2.3	2,435	43.40	1,057
1979	1.6	1,621	53.80	872
1980	2.8	2,851	59.80	1,706
1981	1.0	1,075	59.10	635
			MAUI	
1977	8.5	8,423	36.50	3,074
1978	6.9	6,911	44.10	3,048
1979	7.4	7,452	56.60	4,218
1980	5.3	5,149	60.60	3,120
1981	5.5	5,169	61.40	3,174
			MOLOKAI	
1977	1.5	1,383	35.10	485
1978	1.6	1,535	45.40	697
1979	1.5	1,477	56.20	830
1980	.4	413	59.30	245
1981	1.7	1,790	59.50	1,065
			OAHU	
1977	.8	781	36.10	282
1978	.8	853	44.10	376
1979	1.0	987	58.10	573
1980	.7	740	60.00	444
1981	.8	843	61.00	514

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[1] Animals fattened on grain or other concentrates which produce a carcass expected to grade good or better.

[2] Includes custom slaughter for home use on farms where produced but excludes interfarm sales.

[3] Excludes custom slaughter for use on farms where produced.

CATTLE: Number of range and other slaughter cattle sold, pounds, price, and value, by islands, 1977-81[1]

Year	Number sold[2]	Pounds sold (live weight)[3]	Farm price (live weight)	Value of sales
	1,000 head	1,000 pounds	Dollars per hundredweight	1,000 dollars
STATE				
1977	29.0	23,652	26.60	6,282
1978	30.7	23,331	32.30	7,535
1979	29.7	24,827	45.60	11,325
1980	28.2	24,883	46.60	11,588
1981	26.8	22,826	47.00	10,727
HAWAII				
1977	18.4	14,116	25.20	3,554
1978	19.2	13,800	31.50	4,347
1979	18.2	14,320	47.40	6,785
1980	16.9	14,714	47.60	7,002
1981	15.3	12,601	45.80	5,769
KAUAI/NIIHAU				
1977	3.3	3,130	34.00	1,065
1978	3.8	3,340	35.80	1,195
1979	3.2	2,961	42.70	1,265
1980	3.2	2,914	48.40	1,412
1981	3.6	3,191	52.00	1,660
MAUI				
1977	4.7	3,704	27.40	1,013
1978	4.9	3,335	34.00	1,133
1979	4.9	4,101	42.70	1,753
1980	5.3	4,361	43.90	1,913
1981	4.8	3,992	47.40	1,893
MOLOKAI				
1977	.4	326	28.20	92
1978	.6	504	34.10	172
1979	1.0	900	41.90	377
1980	.9	711	42.50	302
1981	.7	562	47.30	266
OAHU				
1977	2.2	2,376	23.50	558
1978	2.2	2,352	29.30	688
1979	2.4	2,545	45.00	1,145
1980	1.9	2,183	43.90	959
1981	2.4	2,480	45.90	1,139

1/ Animals fattened primarily on grass and other roughage; may include some supplementary feeding of grain. Dairy cattle; calves included.

2/ Includes custom slaughter for home use on farms where produced but excludes interfarm sales.

3/ Excludes custom slaughter for use on farms where produced.

CATTLE: Commercial slaughter and marketings, by class, by months, State of Hawaii, 1977-81

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Commercial slaughter[1]													
Number of head--1,000 head[2]													
1977....	4.9	4.7	5.9	5.0	4.7	5.1	5.0	5.4	5.2	5.0	4.9	5.4	61.2
1978....	5.7	5.1	6.1	4.9	5.3	5.5	5.1	5.7	5.0	5.1	5.3	5.4	64.2
1979....	5.2	4.4	4.6	4.3	4.7	4.1	4.0	4.4	4.4	4.5	4.6	4.8	54.0
1980....	4.8	4.4	4.6	4.4	4.7	4.5	4.8	4.1	4.3	4.1	3.7	4.8	53.2
1981....	**4.0**	**3.9**	**4.6**	**4.4**	**3.7**	**4.5**	**4.7**	**4.9**	**5.2**	**5.1**	**4.6**	**5.2**	**54.6**
Dressed weight--1,000 pounds													
1977....	2,579	2,378	2,905	2,493	2,346	2,653	2,502	2,749	2,671	2,510	2,579	2,821	31,186
1978....	2,938	2,641	3,139	2,469	2,760	2,849	2,647	2,974	2,682	2,674	2,872	2,877	33,522
1979....	2,713	2,251	2,365	2,253	2,447	2,175	2,144	2,377	2,335	2,424	2,472	2,503	28,459
1980....	2,512	2,352	2,460	2,441	2,468	2,424	2,522	2,173	2,273	2,150	1,942	2,483	28,200
1981....	**2,032**	**2,026**	**2,394**	**2,285**	**1,910**	**2,344**	**2,418**	**2,511**	**2,720**	**2,646**	**2,351**	**2,676**	**28,313**
Marketings[3]													
Feedlot steers and heifers, dressed weight--1,000 pounds													
1977....	1,772	1,545	1,887	1,430	1,322	1,627	1,371	1,658	1,708	1,687	1,665	1,904	19,576
1978....	2,077	1,729	1,946	1,584	1,559	1,723	1,721	1,869	1,728	1,584	1,956	1,827	21,303
1979....	1,713	1,415	1,282	1,167	1,255	1,302	1,210	1,254	1,449	1,474	1,401	1,651	16,573
1980....	1,669	1,497	1,374	1,473	1,271	1,229	1,285	1,098	1,063	1,077	924	1,188	15,148
1981....	**1,137**	**951**	**1,170**	**1,188**	**902**	**1,322**	**1,410**	**1,563**	**1,750**	**1,672**	**1,426**	**1,677**	**16,168**
Range steers and heifers, dressed weight--1,000 pounds													
1977....	419	508	488	516	565	577	614	585	507	441	585	505	6,310
1978....	420	444	538	440	541	532	366	524	407	469	399	433	5,513
1979....	503	372	493	460	508	449	475	530	494	519	568	432	5,803
1980....	434	530	579	579	601	635	718	624	632	601	627	575	7,135
1981....	**460**	**706**	**698**	**508**	**461**	**623**	**584**	**546**	**482**	**532**	**450**	**486**	**6,536**
Cows, dressed weight--1,000 pounds													
1977....	416	362	526	569	477	453	510	482	479	408	361	435	5,478
1978....	370	387	542	367	565	513	519	481	455	545	447	527	5,718
1979....	485	469	547	591	666	427	455	570	395	416	498	439	5,958
1980....	427	325	505	371	598	588	504	453	578	472	410	465	5,696
1981....	**383**	**291**	**420**	**479**	**483**	**352**	**369**	**361**	**426**	**361**	**425**	**441**	**4,791**
Bulls, dressed weight--1,000 pounds													
1977....	66	57	98	73	77	91	103	119	72	69	63	73	961
1978....	72	85	113	83	96	83	45	101	96	81	68	87	1,010
1979....	83	65	113	105	88	67	74	93	68	86	90	59	991
1980....	55	73	75	91	71	45	88	70	73	74	49	66	830
1981....	**84**	**110**	**138**	**142**	**96**	**80**	**88**	**73**	**94**	**113**	**82**	**104**	**1,204**

1/ Includes custom slaughter for home use. To convert dressed weight to live weight, divide dressed weight by 0.549 or multiply by a factor of 1.8215.

2/ Sum of monthly estimates may not add to annual total due to rounding.

3/ Excludes custom slaughter for home use and calves shipped out-of-State, but includes on farm sales.

CATTLE: Farm price, by class, by months, State of Hawaii, 1977-81[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Feedlot steers and heifers, dressed weight--Cents per pound												
1977..	62.5	60.5	59.5	61.0	65.5	64.0	65.5	64.5	63.0	66.5	67.0	67.5	64.0
1978..	67.5	70.0	74.5	79.5	84.5	88.0	82.5	79.0	81.5	80.0	76.5	82.0	78.5
1979..	88.0	95.0	105.5	110.5	113.5	108.0	106.0	101.5	105.0	102.5	102.0	102.5	102.5
1980..	107.0	104.5	108.5	106.0	108.0	107.0	110.5	110.5	111.0	111.0	110.0	109.5	108.5
1981..	110.5	110.0	107.5	107.5	114.0	113.5	114.5	110.0	109.5	108.0	105.5	106.5	109.5
	Range steers and heifers, dressed weight--Cents per pound												
1977..	57.5	55.0	56.0	57.5	58.5	58.0	58.5	56.5	56.0	55.0	53.5	53.5	56.5
1978..	55.5	55.5	58.5	64.0	67.0	71.0	67.5	67.0	67.0	66.5	67.0	70.0	64.5
1979..	73.5	78.5	85.5	87.0	87.5	87.5	85.0	82.0	87.5	83.0	84.0	82.5	83.5
1980..	87.0	89.0	89.5	88.0	91.5	90.5	94.0	90.5	90.0	90.0	89.5	91.0	90.0
1981..	94.0	90.5	88.0	91.0	94.0	92.5	95.0	95.0	93.5	92.5	90.5	92.5	92.5
	Cows, dressed weight--Cents per pound												
1977..	38.5	38.0	37.5	40.0	40.0	39.5	40.0	39.5	39.5	39.5	40.0	42.0	39.0
1978..	39.5	41.0	43.5	46.5	52.5	52.5	54.5	55.5	56.5	57.0	57.5	61.5	52.0
1979..	64.0	72.0	77.5	80.5	83.0	82.0	80.5	78.0	76.0	78.0	79.0	78.0	77.5
1980..	77.5	76.5	77.5	79.0	78.5	77.5	79.0	78.5	80.5	79.0	77.5	78.5	78.5
1981..	79.0	80.5	77.5	77.0	78.0	77.0	77.5	78.0	76.0	76.0	75.0	74.5	77.0
	Bulls, dressed weight--Cents per pound												
1977..	41.5	41.0	41.0	41.5	40.5	42.0	40.0	45.5	42.0	41.0	41.5	41.5	41.5
1978..	42.0	43.5	45.5	50.0	54.5	56.5	58.0	61.0	60.0	60.0	63.5	65.0	54.5
1979..	70.0	76.0	82.5	85.5	89.0	84.0	86.0	82.5	81.0	82.5	82.5	82.5	82.0
1980..	82.5	85.5	85.0	84.5	86.0	84.5	85.5	84.0	83.5	85.0	84.0	83.0	84.5
1981..	83.5	84.0	83.5	83.5	83.5	83.0	83.0	82.5	82.5	83.0	83.0	82.5	83.0
	All cattle, dressed weight--Cents per pound												
1977..	57.5	55.5	54.5	55.0	58.0	58.5	58.0	58.0	57.5	60.0	60.0	60.5	57.5
1978..	62.0	62.5	64.5	71.0	73.5	78.0	74.5	72.5	74.5	72.5	72.0	76.0	71.0
1979..	80.5	87.5	94.5	92.5	99.5	98.5	96.0	91.5	96.0	94.0	93.0	95.0	93.5
1980..	98.5	97.0	97.5	97.5	96.5	91.5	99.0	98.0	97.5	98.0	96.5	98.0	97.5
1981..	100.0	98.0	95.0	96.0	99.0	101.5	103.0	101.5	101.0	99.5	96.5	98.0	99.0

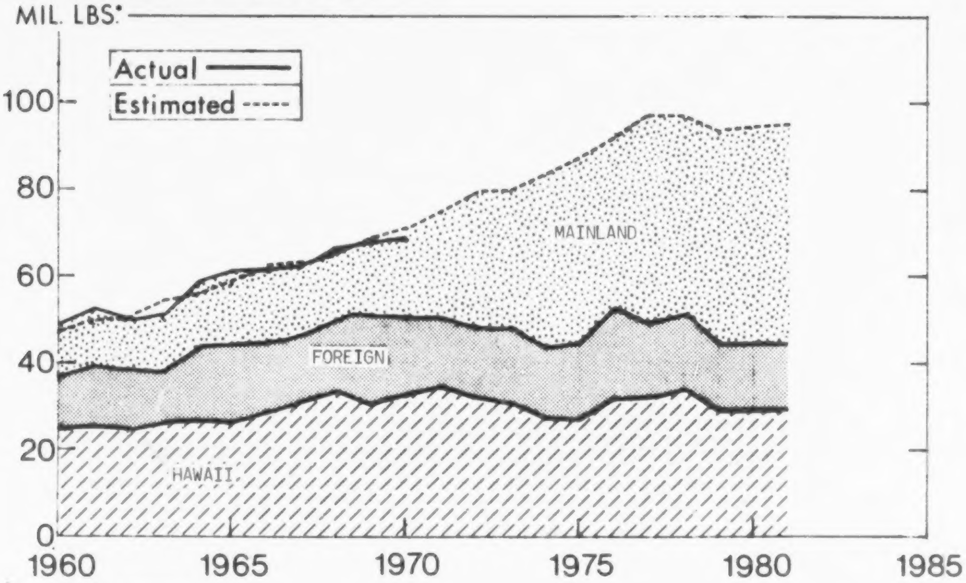
1/ Prices are for commercial slaughter cattle.

CATTLE AND CALVES: Inventory and disposition, State of Hawaii, 1977-81

Year	Inventory beginning January 1	Calf crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory January 1 following year
	1,000 head						
1977..	240	74	1	65	1	15	234
1978..	234	64	1	69	2	13	215
1979..	215	66	1	60	1	8	213
1980..	213	72	*	55	1	9	220
1981..	220	72	*	56	1	7	228

* = Less than 50.

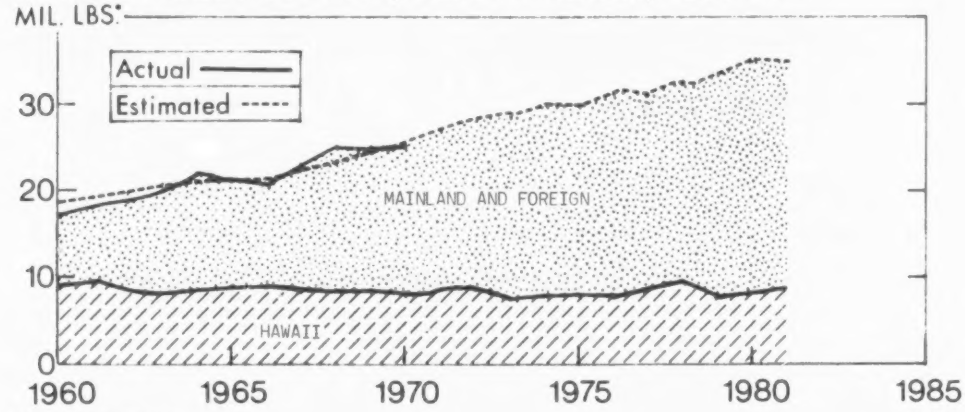
MARKET SUPPLY: Beef and Veal, State of Hawaii, 1960-81



*Carcass-weight equivalent

HARS

MARKET SUPPLY: Pork, State of Hawaii, 1960-81



*Carcass-weight equivalent

HARS

MARKET SUPPLY: Beef and veal, pork, State of Hawaii, 1971-81

Year	Beef and veal				Pork			
	Mainland	Foreign	Hawaii[1]	Total[2]	Mainland	Foreign	Hawaii	Total[2]
			1,000 pounds (carcass weight equivalent)					
1971...	23,884	16,492	33,965	74,341	18,555	71	8,447	27,073
1972...	30,819	15,532	32,183	78,534	19,510	157	8,357	28,024
1973...	31,054	16,910	31,013	78,977	21,179	105	7,433	28,717
1974...	40,237	15,636	27,467	83,340	21,795	24	7,953	29,772
1975...	41,473	17,756	27,000	86,229	21,543	3	7,910	29,456
1976...	39,839	20,414	32,320	92,573	23,287	4	7,781	31,072
1977 3/.	44,645	17,493	32,325	94,463	22,399	2	8,762	31,163
1978 3/.	43,553	17,146	33,544	94,243	22,076	0	9,869	31,945
1979 3/.	47,453	16,030	29,325	92,808	25,796	45	7,785	33,626
1980...	50,348	15,202	28,809	94,359	26,685	133	8,012	34,830
1981...	49,589	16,504	28,699	94,792	25,827	97	8,708	34,632

1/ Excludes slaughter cattle and calves shipped out-of-State. 2/ After 1971 total supply was estimated and mainland inshipments derived. See page 100 for detailed explanation of the estimating procedure. 3/ Revised.

MILK: Number of operations, number of milk cows, production, sales, price, and value, by islands, 1977-81

Year	Operations[1]		Annual average milk cows	Milk per cow	Production[2]	Sold[2]	Average price	Value of sales
	Total	10+ milk cows						
	----------Number----------			Pounds	Million ---pounds----		Dollars per hundredweight	1,000 dollars
					STATE			
1977....	80	29	13,000	11,538	150.0	147.5	15.70	23,158
1978....	70	25	12,900	11,628	150.0	147.3	16.10	23,715
1979....	70	25	12,800	11,719	150.0	147.3	16.90	24,894
1980....	70	24	13,000	11,692	152.0	149.4	18.12	27.071
1981....	**70**	**24**	**12,700**	**11,811**	**150.0**	**147.9**	**20.50**	**30,320**
					HAWAII/KAUAI/MAUI 3/			
1977....	55	6	2,700	10,815	29.2	27.2	15.90	4,331
1978....	46	6	2,900	10,240	29.7	27.7	15.80	4,375
1979....	46	6	3,000	10,635	31.9	29.8	16.50	4,919
1980....	46	6	3,200	10,031	32.1	30.0	17.84	5,352
1981....	**46**	**7**	**3,100**	**10,710**	**33.2**	**31.3**	**19.76**	**6,184**
					OAHU			
1977....	25	23	10,300	11,730	120.8	120.3	15.65	18,827
1978....	24	19	10,000	12,030	120.3	119.6	16.15	19,340
1979....	24	19	9,800	12,050	118.1	117.5	17.00	19,975
1980....	24	18	9,800	12,235	119.9	119.4	18.19	21,719
1981....	**24**	**17**	**9,600**	**12,167**	**116.8**	**116.6**	**20.70**	**24,136**

1/ At end of year. Difference between "Total" and "10+" is operations having 1-9 milk cows.
2/ Difference between "Production" and "Sold" is milk used on farms for human consumption, fed to calves or other uses.
3/ Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

MILK-FEED RATIO, by months, State of Hawaii, 1977-81[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
						Pounds						
1977....	1.83	1.83	1.67	1.67	1.64	1.56	1.64	1.74	1.93	2.09	1.99	1.91
1978....	1.93	1.89	1.92	1.89	1.88	1.81	1.83	1.88	1.93	1.91	1.89	1.87
1979....	1.84	1.77	1.77	1.75	1.72	1.78	1.75	1.82	1.86	1.83	1.82	1.85
1980....	1.82	1.76	1.72	1.71	1.69	1.64	1.69	1.75	1.75	1.67	1.63	1.58
1981....	**1.51**	**1.68**	**1.64**	**1.65**	**1.64**	**1.62**	**1.67**	**1.66**	**1.79**	**1.83**	**1.82**	**1.78**

1/ Pounds of 20-percent dairy feed equal in value to 1 pound of whole milk.

MILK: Number of cows, milk production, and price, by months, State of Hawaii, 1977-81

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
Average number of milk cows on hand during month--1,000 head													
1977....	13.1	13.1	13.1	13.0	12.7	12.8	12.9	12.9	12.8	13.0	12.9	12.9	13.0
1978....	13.2	13.0	12.9	12.9	12.9	12.9	12.8	12.7	12.9	13.0	13.1	13.0	12.9
1979....	13.0	12.8	12.7	12.6	12.5	12.5	12.6	12.8	13.0	12.9	12.7	13.1	12.8
1980....	13.0	13.0	13.0	12.9	12.8	12.9	13.0	13.0	13.1	13.1	13.0	13.1	13.0
1981....	**13.0**	**12.9**	**12.9**	**12.7**	**12.7**	**12.7**	**12.5**	**12.5**	**12.5**	**12.6**	**12.7**	**12.7**	**12.7**
Average monthly production per all cows in herd--Pounds													
1977....	955	885	1,000	990	1,045	1,025	1,000	970	945	930	905	945	11,538
1978....	950	900	1,035	1,010	1,030	975	1,010	985	935	925	895	955	11,628
1979....	985	910	1,020	1,010	1,060	1,025	1,055	990	890	930	940	945	11,719
1980....	975	955	1,040	1,025	1,095	1,025	990	955	895	915	900	935	11,692
1981....	**970**	**905**	**1,015**	**1,030**	**1,070**	**1,000**	**1,030**	**990**	**935**	**950**	**930**	**975**	**11,811**
Milk production--Million pounds													
1977....	12.5	11.6	13.1	12.9	13.3	13.1	12.9	12.5	12.1	12.1	11.7	12.2	150
1978....	12.5	11.7	13.3	13.0	13.3	12.6	12.9	12.5	12.1	12.0	11.7	12.4	150
1979....	12.8	11.6	12.9	12.7	13.2	12.8	13.3	12.7	11.6	12.0	11.9	12.4	150
1980....	12.7	12.4	13.5	13.2	14.0	13.2	12.9	12.4	11.7	12.0	11.7	12.3	152
1981....	**12.6**	**11.7**	**13.1**	**13.1**	**13.6**	**12.7**	**12.9**	**12.4**	**11.7**	**12.0**	**11.8**	**12.4**	**150**
Average price for milk sold to plants--Dollars per hundredweight													
1977....	16.03	15.87	15.67	15.49	15.52	14.81	14.88	15.31	16.32	16.20	16.40	15.72	15.70
1978....	16.04	15.78	16.09	16.08	16.10	15.80	15.75	16.08	16.51	16.49	16.50	16.26	16.10
1979....	16.31	16.36	16.32	16.25	16.14	16.51	16.97	17.37	17.73	17.71	17.52	17.78	16.90
1980....	17.84	17.64	17.58	17.55	17.28	16.82	17.76	18.84	19.27	19.19	19.18	18.91	18.12
1981....	19.24	20.97	20.49	20.57	20.56	19.84	20.05	20.32	21.05	21.10	20.95	20.46	20.50

HONEY: Number of operations, colonies, honey and beeswax production, price, and value, State of Hawaii, 1977-81

Year	Operations	Number of colonies	Yield per colony (honey)	Production		Average price[1]		Value of production	
				Honey (extracted)	Beeswax	Honey (extracted)	Beeswax	Honey	Beeswax
	Number	Thousands	Pounds	---1,000 pounds---		-Cents per pound-		-1,000 dollars-	
1977	23	7	97	679	11	45.4	126	308	14
1978	28	7	116	812	11	47.6	183	387	20
1979	25	7	130	910	15	47.2	180	430	27
1980	27	7	123	861	20	49.6	172	427	34
1981	28	7	125	875	16	53.3	186	466	30

[1] Average of unprocessed bulk and processed packaged honey sold at wholesale and processed packaged honey sold at retail by farmers.

HOGS AND PIGS: December 1 inventory by classes and weight, by islands, 1977-81

Year	All hogs and pigs	Breeding	Market				
			Total	Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over
			1,000 head				
			STATE[1/]				
1977.....	62	9	53	24	15	10	4
1978.....	54	8	46	22	14	8	2
1979.....	53	8	45	22	12	9	2
1980.....	57	9	48	22	13	10	3
1981.....	55	8	47	22	13	9	3
			HAWAII				
1977.....	5.9	.9	5.0	2.5	1.3	.9	.3
1978.....	5.2	1.0	4.2	2.1	1.2	.8	.1
1979.....	5.7	.9	4.8	2.6	1.2	.8	.2
1980.....	6.5	1.1	5.4	2.8	1.7	.8	.1
1981.....	4.8	.7	4.1	2.1	1.3	.6	.1
			KAUAI				
1977.....	3.4	.5	2.9	1.4	.8	.5	.2
1978.....	2.5	.4	2.1	1.2	.4	.5	*
1979.....	3.2	.4	2.8	1.3	.8	.4	.3
1980.....	4.5	.8	3.7	1.7	1.0	.7	.3
1981.....	5.2	.8	4.4	2.4	1.2	.6	.2
			MAUI				
1977.....	10.2	1.5	8.7	3.5	3.0	1.6	.6
1978.....	10.1	1.4	8.7	4.1	3.4	1.1	.1
1979.....	9.0	1.4	7.6	3.5	1.9	1.8	.4
1980.....	9.9	1.5	8.4	3.3	2.6	1.7	.8
1981.....	10.1	1.5	8.6	3.5	2.7	1.8	.6
			MOLOKAI/LANAI				
1977.....	.7	.1	.6	.3	.2	*	.1
1978.....	.9	.1	.8	.4	.2	.1	.1
1979.....	.9	.2	.7	.4	.2	.1	*
1980.....	.8	.2	.6	.3	.1	.1	.1
1981.....	.8	.2	.6	.4	.1	.1	*
			OAHU				
1977.....	41.8	5.6	36.2	15.9	9.9	7.2	3.2
1978.....	35.3	5.4	29.9	13.7	8.9	5.4	1.9
1979.....	34.2	5.5	28.7	14.0	7.7	5.8	1.2
1980.....	35.4	5.6	29.8	13.8	7.6	6.2	2.2
1981.....	34.5	5.0	29.5	13.5	7.9	6.3	1.8

* = Less than 500.

1/ State totals may not add due to rounding.

HOGS: Number of operations, pig crop, number and pounds sold, price, and value, by islands, 1977-81

Year	Number of operations[1]		Pig crop[2]		Number sold[3]	Pounds sold (live weight)[4]	Farm price (live weight)	Value of sales
	Total	10+	December-May	June-November				
	--Number--		---------1,000 head---------			1,000 pounds	Dollars per hundredweight	1,000 dollars
					STATE [5]			
1977..	640	520	39	37	63	11,683	60.90	7,115
1978..	650	480	37	34	71	13,159	60.50	7,961
1979..	650	470	34	37	63	10,380	67.70	7,027
1980..	650	430	39	37	63	10,683	69.80	7,457
1981..	**650**	**420**	**38**	**40**	**69**	**11,610**	**72.20**	**8,382**
					HAWAII			
1977..	85	65	4.8	4.0	8.8	1,630	54.50	888
1978..	85	50	4.4	4.5	8.7	1,587	61.00	968
1979..	80	60	3.8	4.0	6.6	1,112	70.50	784
1980..	80	60	4.1	4.1	6.8	1,239	72.00	892
1981..	**70**	**55**	**3.7**	**3.3**	**7.6**	**1,263**	**75.50**	**954**
					KAUAI			
1977..	100	70	2.2	2.2	2.9	533	71.50	380
1978..	100	60	2.0	1.4	3.7	656	74.00	486
1979..	110	70	2.3	3.2	3.7	504	77.50	391
1980..	110	60	3.6	3.6	5.6	864	78.00	674
1981..	**115**	**60**	**3.6**	**3.8**	**5.4**	**938**	**79.50**	**746**
					MAUI/MOLOKAI			
1977..	120	95	5.6	5.3	12.1	2,247	66.00	1,483
1978..	110	80	6.9	7.2	12.6	2,505	65.00	1,628
1979..	100	80	6.6	6.6	12.8	2,211	73.50	1,625
1980..	110	75	9.0	7.3	14.4	2,470	75.50	1,865
1981..	**110**	**70**	**8.7**	**8.9**	**15.8**	**2,787**	**77.00**	**2,146**
					OAHU			
1977..	335	290	26.0	25.1	39.2	7,273	60.00	4,364
1978..	355	290	23.7	20.9	46.0	8,411	58.00	4,879
1979..	360	260	21.7	23.5	40.0	6,553	64.50	4,227
1980..	350	235	22.5	21.8	36.2	6,110	66.00	4,026
1981..	**355**	**235**	**22.3**	**23.8**	**40.0**	**6,622**	**68.50**	**4,536**

[1] Difference between "Total" and "10+" is operations having 1-9 hogs; current year number of operations is preliminary.

[2] Number of pigs born during the 6-month period which were still on hand or were sold.

[3] Excludes interfarm sales; includes custom slaughter for home use; includes direct sales on farms to consumers.

[4] Excludes custom slaughter for use on farms where produced and interfarm sales.

[5] State totals may not add for number of operations and pig crop due to rounding. Sales and value data are for the 12-month period, December of the previous year through November of the following year.

HOGS: Commercial slaughter and farm price, by months, State of Hawaii, 1977-81

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average
	Number of head--1,000 head[1/] [2/]												
1977.....	3.2	3.5	3.9	4.0	3.8	3.9	4.1	4.2	4.0	3.8	4.0	5.6	48.0
1978.....	3.7	3.6	4.0	4.2	4.0	4.1	4.0	4.2	3.7	3.8	3.6	4.8	47.7
1979.....	3.3	3.3	3.5	3.3	3.1	3.2	3.2	2.8	2.6	3.3	3.4	4.4	39.4
1980.....	2.9	3.2	3.6	3.6	3.7	3.6	3.7	3.6	3.4	3.5	3.4	4.9	43.1
1981.....	**3.2**	**3.1**	**3.5**	**3.2**	**3.5**	**3.8**	**3.6**	**3.6**	**3.3**	**3.7**	**3.5**	4.7	42.8
	Pounds slaughtered--1,000 pounds, dressed weight[1/] [3/]												
1977.....	456	472	556	570	556	556	569	583	570	541	585	777	6,791
1978.....	518	520	568	592	589	574	525	539	475	494	465	639	6,498
1979.....	436	434	471	432	397	418	441	386	344	456	482	610	5,307
1980.....	401	443	519	518	526	492	524	491	476	488	486	668	6,032
1981.....	**447**	**433**	**484**	**459**	518	544	525	490	466	544	501	674	6,085
	Farm price--Cents per pound, dressed weight [4/]												
1977.....	83.5	82.0	82.5	81.0	80.5	81.5	79.5	80.5	80.5	79.5	79.0	79.0	81.0
1978.....	79.0	78.5	79.0	78.0	78.5	80.5	82.0	84.0	84.0	83.5	84.5	87.0	80.5
1979.....	87.0	89.5	89.5	89.0	91.0	91.5	92.5	92.0	91.5	92.0	92.5	93.5	90.0
1980.....	93.0	93.0	92.5	92.5	93.0	91.5	89.5	94.5	94.5	95.0	95.0	94.5	93.0
1981.....	**95.0**	**95.5**	**97.0**	**97.0**	**95.0**	96.0	96.0	97.5	97.5	97.5	97.5		96.5

[1/] Excludes non-inspected farm slaughter; includes custom slaughter and live hog inshipments from the mainland for slaughter.

[2/] Sum of monthly estimates may not add to annual total due to rounding.

[3/] To convert dressed weight to live weight: Divide by 0.75 or multiply by a factor of 1.3333.

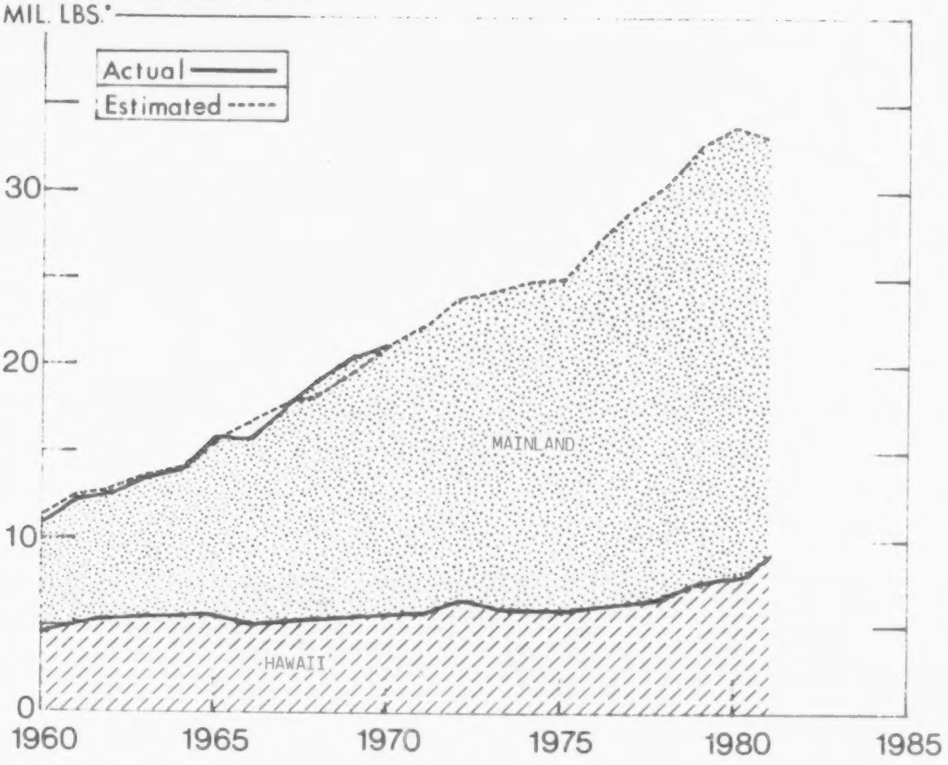
[4/] Annual average price is for marketing year December-November.

HOGS AND PIGS: Inventory and disposition, State of Hawaii, 1977-81

Year	Inventory December 1 previous year	Annual pig crop	Inshipments	Marketings	Farm slaughter	Deaths	Inventory December 1
				1,000 head			
1977..	60	76	*	63	3	8	62
1978..	62	71	*	71	3	5	54
1979..	54	71	*	63	3	6	53
1980..	53	76	*	63	3	6	57
1981..	57	78	*	69	4	7	55

* = Less than 500 head.

MARKET SUPPLY: Chickens and Broilers, State of Hawaii, 1960-81



*Ready-to-cook weight

HARS

MARKET SUPPLY: Poultry meat, State of Hawaii, 1972-81

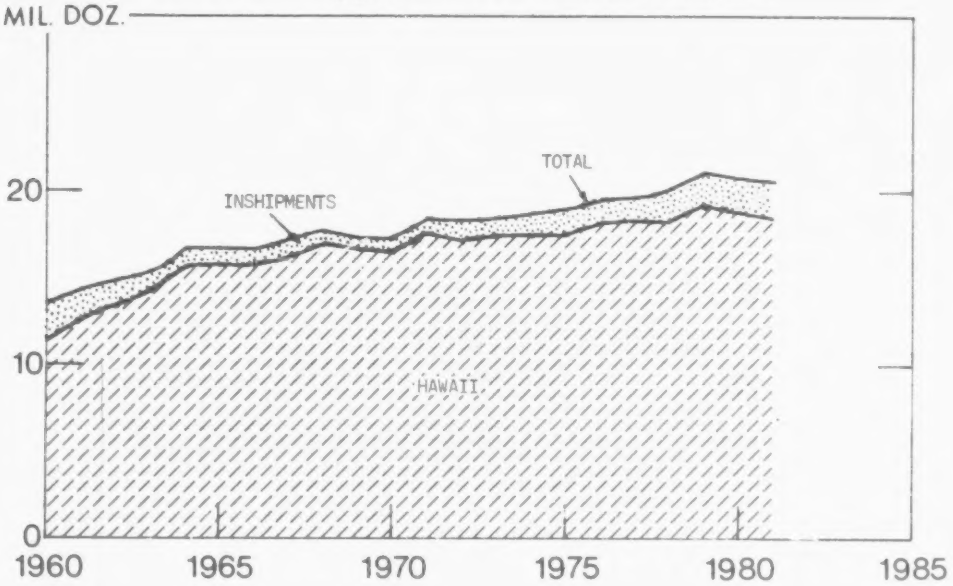
Commodity	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
	1,000 pounds (ready-to-cook weight)									
Broilers:										
Inshipments...	17,393	18,082	18,981	19,242	21,016	1/22,643	1/23,682	1/25,795	25,455	**23,850**
Hawaii........	5,371	5,027	4,987	4,697	5,200	5,180	5,816	5,896	6,569	**7,673**
Total.......	22,764	23,109	23,968	23,939	26,216	1/27,823	1/29,498	1/31,691	32,024	**31,523**
Other chickens:										
Hawaii........	988	1,004	866	962	921	978	970	1,240	1,321	**1,373**
Total chickens:										
Inshipments...	17,393	18,082	18,981	19,242	21,016	1/22,643	1/23,682	1/25,795	25,455	**23,850**
Hawaii........	6,359	6,031	5,853	5,659	6,121	6,158	6,786	7,136	7,890	**9,046**
Total2/......	23,752	24,113	24,834	24,901	27,137	1/28,801	1/30,468	1/32,931	33,345	**32,896**
Turkeys:										
Inshipments...	3,168	3,597	3,747	NA	NA	NA	NA	NA	NA	NA

NA = Not available.

1/ Revised.

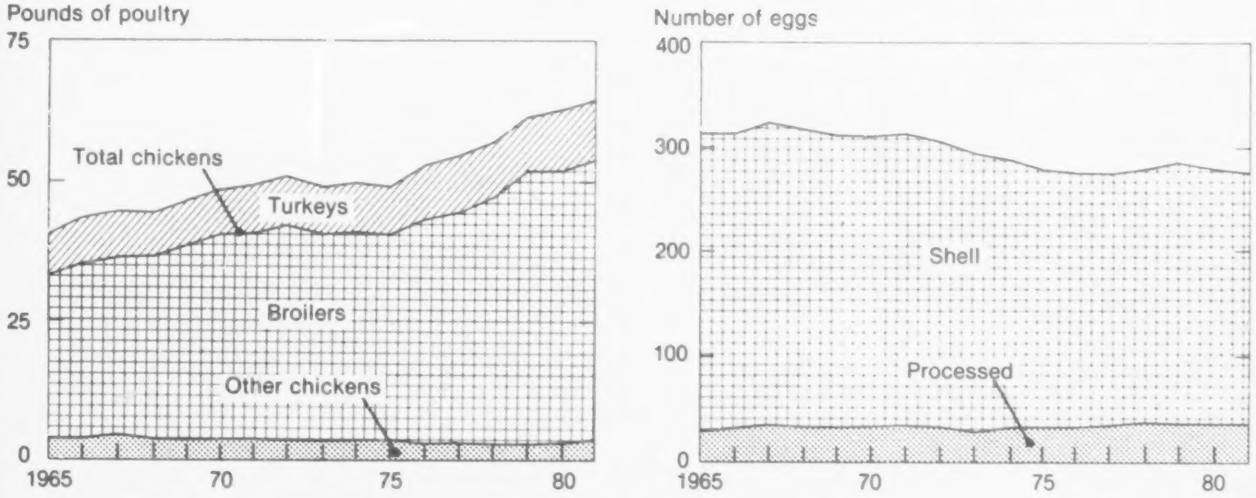
2/ After 1972 total supply was estimated and mainland inshipments derived. See page 100 for detailed explanation of the estimating procedure.

MARKET SUPPLY: Eggs, State of Hawaii, 1960-81



HARS

U.S. Per Capita Consumption of Poultry and Eggs



Poultry is ready-to-cook weight. Processed eggs converted to shell equivalent. 1980 preliminary. 1981 forecast.

USDA

MARKET SUPPLY: Eggs, State of Hawaii, 1977-81

Commodity	1977	1978	1979	1980	1981
			1,000 dozens		
Eggs, shell:					
Inshipments....	1,506	1,914	1,956	2,371	2,464
Hawaii.........	18,200	18,200	19,100	18,400	18,400
Total........	19,706	20,114	21,056	20,771	20,864

Source of inshipment data: Mainland, Market News Service, Hawaii Department of Agriculture.

CHICKENS: December 1 inventory by class, by islands, 1977-81

Year	All chickens (excluding broilers)	Number of layers			Non-laying pullets		Other chickens (excluding broilers)
		Hens 1 year +	Pullets under 1 year	Total	Over 3 months	Under 3 months	
	Thousands						
	STATE						
1977......	1,301	677	327	1,004	137	160	*
1978......	1,333	619	406	1,025	131	177	*
1979......	1,306	658	341	999	147	160	*
1980......	1,314	593	414	1,007	175	132	*
1981......	1,242	538	401	939	136	167	*
	HAWAII						
1977......	89	42	22	64	16	9	*
1978......	92	23	41	64	7	21	*
1979......	1/	1/	1/	1/	1/	1/	1/
1980......	1/	1/	1/	1/	1/	1/	1/
1981......	1/	1/	1/	1/	1/	1/	1/
	KAUAI/MAUI/MOLOKAI 2/						
1977......	96	35	42	77	9	10	
1978......	99	57	24	81	6	12	*
1979......	1/178	1/68	1/75	1/143	1/10	1/25	*
1980......	1/196	1/81	1/66	1/147	1/24	1/25	1/*
1981......	1/159	1/69	1/57	1/126	1/17	1/16	1/*
	OAHU						
1977......	1,116	600	263	863	112	141	*
1978......	1,142	539	341	880	118	144	*
1979......	1,128	590	266	856	137	135	*
1980......	1,118	512	348	860	151	107	*
1981......	1,083	469	344	813	119	151	*

* = Less than 500.

1/ Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

2/ Kauai and Maui/Molokai combined to avoid disclosure of individual operations.

EGG-TYPE PULLET CHICK PLACEMENTS, by months, State of Hawaii, 1977-81[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	1,000 chicks												
1977..	84	24	73	58	61	96	9	80	34	37	89	9	654
1978..	83	44	56	82	8	113	12	77	52	19	115	11	672
1979..	87	32	105	62	5	42	113	54	100	10	51	30	691
1980..	58	59	37	34	95	30	131	13	59	58	13	87	674
1981..	94	24	60	51	52	72	19	58	71	81	27	41	650

1/ Inshipments plus local hatch.

CHICKENS: December 1 number of operations, sales, price, and value, by islands, 1977-81[1]

Year	Operations	Number sold	Pounds sold (live weight)[2]	Average price (live weight)[3]	Value of sales
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
			STATE		
1977..........	70	411	1,397	16.0	224
1978..........	60	396	1,386	14.0	194
1979..........	60	479	1,772	15.5	275
1980..........	60	510	1,887	12.7	240
1981..........	55	530	1,961	12.4	243
			HAWAII/KAUAI/MAUI/MOLOKAI[4]		
1977..........	44	95	323	23.5	76
1978..........	34	63	225	28.0	63
1979..........	34	75	278	27.3	76
1980..........	34	57	202	26.7	54
1981..........	32	66	240	30.3	73
			OAHU		
1977..........	26	316	1,074	13.8	148
1978..........	26	333	1,161	11.3	131
1979..........	26	404	1,494	13.3	199
1980..........	26	453	1,685	11.0	186
1981..........	23	464	1,721	9.9	170

1/ Data are for December-November marketing year.
2/ To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.
3/ Equivalent delivered processing plant.
4/ Hawaii, Kauai, and Maui/Molokai combined to avoid disclosure of individual operations.

CHICKENS: Slaughter and price, by months, State of Hawaii, 1977-81[1]

Month	Number sold					Pounds sold (live weight)[2]					Average farm price (live weight)[3]				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	1,000 birds					1,000 pounds					Cents per pound				
December.........	32	32	29	42	35	117	88	100	162	139	19.5	15.0	19.0	13.5	15.0
January..........	32	38	38	44	41	104	95	148	164	141	17.0	16.0	15.0	15.0	13.5
February.........	23	26	54	39	45	77	95	205	149	161	19.0	14.0	14.0	13.0	14.0
March............	19	22	29	27	48	70	84	104	102	179	18.0	15.5	17.5	13.0	14.5
April............	32	28	30	35	38	105	96	108	132	162	16.5	17.0	17.0	12.5	13.0
May..............	39	42	47	42	52	129	141	180	159	198	14.5	13.0	16.5	12.5	12.5
June.............	46	40	29	16	50	159	147	101	54	181	14.0	13.0	17.0	18.0	14.0
July.............	46	44	46	37	42	154	158	182	127	150	14.5	11.5	13.5	15.0	12.0
August...........	35	31	37	37	48	118	110	146	135	179	15.5	14.5	16.5	13.5	10.0
September........	44	27	38	49	45	146	121	139	195	166	15.5	12.5	16.5	12.5	9.5
October..........	30	32	58	91	36	120	125	206	317	129	15.5	13.0	14.0	9.0	10.5
November.........	33	34	44	51	50	98	126	153	191	176	18.5	17.0	14.0	13.0	10.0
Total or average.	411	396	479	510	530	1,397	1,386	1,772	1,887	1,961	16.0	14.0	15.5	12.7	12.4

1/ Data are for December-November marketing year.
2/ To convert live weight to ready-to-cook weight, multiply by a conversion factor of .70.
3/ Equivalent delivered processing plant.

EGGS: December 1 number of operations, number of layers, production, sales, price, and value, by islands, 1977-81[1]

Year	Operations with layers		Average number of layers	Average production per layer	Production[3]	Average price[4]	Value of sales
	Total[2]	100+					
	-------Number-------		1,000 birds	Eggs	Million eggs	Cents per dozen	1,000 dollars
				STATE 5/			
1977...	70	33	991	220	218.4	68.3	12,408
1978...	60	32	1,007	216	217.9	69.9	12,699
1979...	60	27	1,039	220	229.3	73.4	14,007
1980...	60	26	1,035	214	220.5	75.7	13,910
1981...	55	24	980	226	221.3	82.2	15,159
				HAWAII			
1977...	28	6	64	220	14.1	76.0	893
1978...	23	5	58	228	13.2	78.0	858
1979...	6/	6/	6/	6/	6/	6/	6/
1980...	6/	6/	6/	6/	6/	6/	6/
1981...	6/	6/	6/	6/	6/	6/	6/
				KAUAI/MAUI/MOLOKAI 7/			
1977...	16	6	66	217	14.3	78.0	929
1978...	11	6	83	218	17.9	79.0	1,178
1979...	6/34	6/9	6/141	6/225	6/31.7	6/81.5	6/2,151
1980...	6/34	6/7	6/141	6/209	6/29.4	6/87.5	6/2,143
1981...	6/32	6/7	6/128	6/223	6/28.6	6/97.5	6/2,322
				OAHU			
1977...	26	21	861	220	190.0	67.0	10,586
1978...	26	21	866	216	186.8	68.5	10,663
1979...	26	18	898	220	197.6	72.0	11,856
1980...	26	19	894	214	191.1	74.0	11,767
1981...	23	17	852	226	192.7	80.0	12,837

1/ Annual number of layers, egg production, sales, price, and value are a December-November marketing year.
2/ Difference between "Total" and "100+" is operations having 1-99 layers.
3/ Home consumption less than 0.5 million eggs included.
4/ Equivalent delivered processing plant.
5/ Sum of island estimates may not add to State total due to rounding.
6/ Hawaii, Kauai and Maui/Molokai combined to avoid disclosure of individual operations.
7/ Kauai and Maui/Molokai combined to avoid disclosure of individual operations.

EGGS: Number of layers, production, and price, by months, State of Hawaii, 1977-81

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total or average[1]
	Average number of layers on hand during month--1,000 layers												
1977..	983	981	999	1,003	991	986	983	981	988	995	1,000	1,002	991
1978..	997	994	999	1,006	1,006	999	998	1,006	1,022	1,028	1,024	1,023	1,007
1979..	1,028	1,025	1,038	1,060	1,043	1,036	1,044	1,059	1,069	1,039	1,005	1,015	1,039
1980..	1,021	1,034	1,053	1,052	1,050	1,051	1,052	1,044	1,037	1,011	997	1,014	1,035
1981..	**1,021**	**1,023**	**1,006**	**980**	**967**	**962**	**973**	**968**	**953**	**950**	**945**		**980**
	Egg production--Million eggs [2]												
1977..	18.8	16.4	18.4	18.6	19.1	17.6	18.1	18.2	17.6	18.3	17.9	18.4	218.4
1978..	18.3	16.8	18.8	17.7	18.3	17.7	18.3	18.2	17.6	19.0	18.8	18.8	217.9
1979..	19.1	17.6	20.4	19.9	20.2	18.7	19.1	19.4	19.1	19.2	17.8	18.5	229.3
1980..	17.7	17.1	19.3	18.7	19.8	19.1	19.2	18.8	17.5	17.5	17.3	18.5	220.5
1981..	**19.6**	**18.2**	**19.4**	**18.5**	**18.8**	**17.6**	**18.4**	**18.9**	**17.9**	**18.1**	**17.4**		**221.3**
	Average farm price--Cents per dozen [3]												
1977..	66.5	71.0	69.5	70.0	69.5	69.0	68.5	68.0	67.5	69.5	68.0	68.5	68.3
1978..	67.5	69.5	68.5	68.5	70.5	70.5	70.5	71.0	69.5	71.5	72.5	71.0	69.9
1979..	71.0	76.0	76.0	79.0	77.5	74.0	75.0	74.0	70.0	68.0	68.5	69.5	73.4
1980..	71.5	73.5	77.5	79.5	78.0	79.5	77.0	76.0	75.0	75.5	74.0	82.0	75.7
1981..	**81.5**	**82.5**	**83.0**	**83.5**	**82.5**	**81.0**	**81.0**	**81.0**	**81.0**	**85.0**	**82.0**		**82.2**

[1] Annual data are for a December-November marketing year.

[2] Annual totals may not add due to rounding.

[3] Equivalent delivered processing plant.

EGG-FEED RATIO, by months, State of Hawaii, 1977-81[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Pounds											
1977..	7.3	7.8	7.4	7.5	7.3	7.3	7.6	7.5	8.0	8.2	8.1	8.3
1978..	8.1	8.3	8.2	7.5	7.6	7.7	7.5	7.7	7.7	7.9	8.0	7.8
1979..	7.6	8.0	7.9	8.1	7.9	7.4	7.1	7.1	6.6	6.3	6.4	6.5
1980..	6.7	6.8	7.2	7.4	7.3	7.4	7.0	6.6	6.4	6.2	5.9	6.4
1981..	**6.4**	**6.5**	**6.5**	**6.5**	**6.5**	**6.5**	**6.5**	**6.5**	**6.5**	**7.1**	**6.8**	**7.0**

[1] Number of pounds of laying feed, equivalent in value to 1 dozen eggs.

BROILERS: December 1 number of operations, sales, price, and value, State of Hawaii, 1977-81[1]

Year	Operations	Number sold[2]	Pounds sold (live weight)[2][3]	Average price (live weight)[4]	Value of sales[2]
	Number	Thousands	1,000 pounds	Cents per pound	1,000 dollars
1977.......	10	2,158	6,906	42.0	2,901
1978.......	10	2,281	7,755	40.5	3,141
1979.......	10	2,246	7,861	43.0	3,380
1980.......	10	2,576	8,758	45.0	3,941
1981.......	10	3,009	10,231	49.5	5,064

[1] Data are for December-November marketing year.
[2] Includes home consumption which is less than 1 percent of production.
[3] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .75.
[4] Equivalent delivered processing plant.

BROILERS: Slaughter and price, by months, State of Hawaii, 1977-81[1]

Month	Number sold[2]					Pounds sold (live weight)[2][3]					Average farm price (live weight)[4]				
	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
	1,000 birds					1,000 pounds					Cents per pound				
December.....	179	202	195	213	239	614	798	751	681	783	41.0	41.0	39.0	43.0	49.0
January......	165	200	222	206	259	549	789	868	685	887	42.0	40.0	41.5	44.0	48.0
February.....	136	183	139	186	236	436	571	519	629	799	42.5	39.0	42.5	46.5	48.5
March........	167	199	194	190	253	577	668	635	626	891	42.0	40.5	44.0	47.5	48.5
April........	186	168	173	198	289	549	562	548	667	1,015	44.0	39.5	44.0	46.5	49.5
May..........	193	221	197	240	257	594	601	701	872	850	41.5	40.0	44.0	44.5	50.0
June.........	233	166	187	220	248	742	484	627	757	799	42.0	41.5	44.0	45.0	51.0
July.........	165	169	185	252	250	507	532	611	782	899	44.0	42.0	41.5	43.5	50.5
August.......	175	212	195	216	248	554	721	662	784	847	42.5	41.0	43.0	43.0	50.0
September....	215	177	167	219	230	662	587	558	758	778	41.0	41.5	45.0	44.5	49.5
October......	185	222	212	235	248	582	886	710	829	834	41.5	42.5	43.5	46.0	49.5
November.....	159	162	180	201	252	540	556	671	688	849	40.5	42.0	45.0	47.0	49.5
Total or average.....	2,158	2,281	2,246	2,576	3,009	6,906	7,755	7,861	8,758	10,231	42.0	40.5	43.0	45.0	49.5

[1] Data are for December-November marketing year.
[2] Includes home consumption which is less than 1 percent of production.
[3] To convert live weight to ready-to-cook weight, multiply by a conversion factor of .75.
[4] Equivalent delivered processing plant.

BROILER-FEED RATIO, by months, State of Hawaii, 1977-81[1]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
	Pounds											
1977..	3.7	3.7	3.6	3.5	3.3	3.2	3.7	3.8	3.9	4.0	3.8	4.1
1978..	3.8	3.7	3.7	3.4	3.4	3.6	3.6	3.6	3.7	3.7	3.6	3.5
1979..	3.5	3.6	3.6	3.6	3.4	3.4	3.7	3.7	3.5	3.4	3.5	3.3
1980..	3.4	3.5	3.7	3.5	3.4	3.4	3.2	3.0	3.0	3.1	3.0	3.1
1981..	3.0	3.1	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.5

[1] Number of pounds of broiler grower equal in value to 1 pound of broiler live weight.

SEED CORN: Number of farms, acreage used for crop, acreage harvested, outshipments, and value, State of Hawaii, 1977-81

Crop year November-June	Farms	Acreage used for crop	Acreage harvested			Outshipments of seed	Value
			Nursery	Observation	Seed increase		
	Number	----------------Acres----------------				1,000 pounds	1,000 dollars
1977-78........	6	460	235	75	180	340	1,389
1978-79........	6	480	240	90	190	270	1,740
1979-80........	5	510	250	100	160	290	2,100
1980-81........	5	550	280	120	140	350	2,410
1981-82........	5	650	300	125	250	405	2,900

FEED CROPS: Acreage, production, sales, and value, State of Hawaii, 1977-81[1]

Year	Acreage harvested	Production	
		Quantity	Value
	Acres	1,000 tons	1,000 dollars
1977...............	6,247	73.2	1,559
1978...............	5,270	67.9	1,484
1979...............	3,516	68.2	1,457
1980...............	4,702	74.1	1,691
1981...............	6,495	90.8	2,117

1/ Includes grains, grass and legume crops, and pineapple green chop.

FEED PRICES: Average price paid by farmers for feed, State of Hawaii, 1977-81

Kind of feed	Unit	1977	1978	1979	1980	1981
		Dollars				
Chick starter.............................	Ton	200	198	220	245	275
Broiler grower............................	Ton	230	225	255	280	305
Laying feed...............................	Ton	180	179	205	225	250
Dairy feed, 20-percent protein............	Ton	176	171	188	215	240
Rolled barley.............................	Ton	144	144	158	196	208
Rolled corn...............................	Ton	142	144	166	193	211
Alfalfa cubes.............................	Ton	139	125	143	191	183
Pineapple bran............................	Ton	91	91	94	108	131
Cottonseed meal, 41-percent protein.......	100 pounds	13.50	12.50	15.00	14.60	16.30
Hog feed, 14-18 percent protein...........	100 pounds	9.40	9.60	10.00	12.50	13.60
Beef cattle feed, 10-20 percent protein...	100 pounds	8.70	8.90	9.40	10.90	12.20
Oyster shells.............................	100 pounds	5.90	1/	1/	1/	1/
Stock salt................................	100 pounds	5.30	5.40	5.80	5.80	5.60

1/ Discontinued.

FEED PRICES: Average price paid by farmers for feed, by months, State of Hawaii, 1979-81

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
						Dollars per ton						
						CHICK STARTER						
1979.	205	210	210	210	215	215	225	230	225	225	225	225
1980.	230	230	230	230	230	230	240	250	260	270	275	280
1981.	280	280	280	280	280	280	275	275	270	265	265	265
						BROILER GROWER						
1979.	240	240	245	245	255	255	265	265	260	260	260	260
1980.	260	265	260	265	265	265	275	290	300	295	315	320
1981.	320	310	310	310	310	310	305	305	300	295	295	295
						LAYING FEED						
1979.	187	191	192	195	196	200	210	210	215	215	215	215
1980.	215	215	215	215	215	215	220	230	235	245	250	255
1981.	255	255	255	255	255	250	250	250	250	240	240	240
						DAIRY FEED, 20-PERCENT PROTEIN						
1979.	177	185	184	186	188	186	194	191	191	194	193	192
1980.	196	200	205	205	205	205	210	215	220	230	235	240
1981.	255	250	250	250	250	245	240	245	235	230	230	230
						ROLLED BARLEY						
1979.	139	138	140	141	142	146	165	176	181	175	174	173
1980.	178	183	183	180	188	185	205	205	200	210	215	215
1981.	225	215	215	215	220	220	205	205	197	194	194	193
						ROLLED CORN						
1979.	149	151	157	160	165	165	177	171	172	175	175	175
1980.	175	175	175	173	181	184	205	205	210	210	210	215
1981.	220	215	215	215	215	220	215	215	215	196	197	189
						ALFALFA CUBES						
1979.	125	125	130	125	120	145	145	160	160	160	160	165
1980.	165	183	200	200	200	193	193	193	193	194	188	187
1981.	190	195	195	180	184	183	186	176	176	176	176	176
						PINEAPPLE BRAN						
1979.	90	93	92	93	100	100	100	100	100	100	100	100
1980.	100	105	105	105	110	110	112	112	112	112	112	106
1981.	112	112	123	131	131	131	132	137	135	142	142	142
						COTTONSEED MEAL, 41-PERCENT PROTEIN--100 pounds						
1979.	15.00	15.00	15.00	13.50	14.50	15.00	15.50	15.50	17.00	14.00	14.00	13.50
1980.	13.50	14.00	14.60	14.50	14.50	14.70	14.70	15.00	14.50	15.50	15.00	15.30
1981.	15.40	15.40	15.10	14.80	15.90	15.90	17.50	16.50	16.50	17.50	17.50	17.50

FEED: Inshipments from all sources, State of Hawaii, 1977-81

Commodity	1977	1978	1979	1980	1981
	Tons				
FEED GRAINS					
Barley	5,615	11,299	20,763	12,558	20,506
Corn	35,994	44,133	38,137	39,757	37,688
Oats	250	366	208	236	186
Sorghum	5,911	14,350	10,733	180	2,454
Wheat	22,838	2,392	4,435	864	6,183
Total	77,329	72,540	74,276	53,595	67,017
MIXED FEEDS					
Calf	628	806	511	453	366
Cattle	7,069	10,508	7,183	5,802	7,129
Dairy	11,437	10,293	12,419	12,133	9,497
Horse	2,034	1,968	1,828	1,458	1,347
Pigeon	866	841	717	698	537
Poultry (including scratch)	4,838	5,089	6,276	6,412	6,762
Rabbit	104	147	58	50	30
Swine	3,553	4,572	3,690	3,539	3,608
Other mixed	486	870	559	106	395
Total	31,015	35,094	33,241	30,651	29,671
ALFALFA PRODUCTS					
Cubes and hay	18,540	17,923	16,591	12,472	15,844
Pellets, dehydrated	1,907	2,017	1,013	1,201	5,114
Pellets, suncured	5,068	3,978	5,053	1,577	1,755
Total	25,515	23,918	22,657	15,250	22,713
PROTEIN FEEDS					
Cottonseed products	13,648	14,594	10,854	11,549	14,401
Cottonseed, whole	2,150	2,547	2,197	4,738	4,362
Fish meal	10	0	0	0	0
Meat and bone meal	3,806	1/ 3,367	1/ 3,067	2,062	1,516
Soybean meal	5,453	1/ 6,831	8,670	8,412	8,308
Other protein	0	0	277	39	103
Total	25,067	27,339	25,065	26,800	28,690
OTHER FEEDSTUFF					
Almond hulls and pellets	3,192	5,139	2,144	2,418	3,123
Beet pulp and pellets	1,415	475	674	0	802
Brans	1,000	0	0	0	0
Copra pellets	0	0	2/ 624	2/ 2,813	3/ 1,883
Cottonseed hulls and pellets	6,094	4,418	2,265	1,413	1,300
Grain screenings and pellets	6,721	0	2,044	6,694	13,234
Middlings	4	0	0	0	0
Mill run	43	23	3/	0	0
Other mill feeds	3/	3/	11	48	0
Whey	147	54	59	76	92
Yeast	179	139	23	18	20
Miscellaneous/unspecified	408	304	205	1,936	3,465
Total	12,482	10,552	8,049	15,416	23,919
TOTAL FEED INSHIPMENTS	171,408	169,443	163,288	141,712	172,010

1/ Includes foreign.

2/ Foreign.

3/ Receipts not specifically identified; included under Miscellaneous/unspecified.

Source: Market News Service, Hawaii Department of Agriculture.

AGRICULTURAL EMPLOYMENT: Workers on farms, State of Hawaii, annual averages, 1977-81

Year	Total farm employment			Hired workers by type of farm		
	Self employed farm operators	Unpaid family 15+	Hired workers	Sugar	Pineapple	Other
1977..	2,840	1,550	11,300	4,980	2,400	3,910
1978..	2,890	1,810	11,600	4,950	2,520	4,100
1979..	3,020	1,520	10,800	4,950	2,520	3,300
1980..	3,400	1,100	10,550	4,840	2,510	3,200
1981 1/	3,450	1,050	9,500	4,725	2,025	2,750

1/ Quarterly survey discontinued May 1981. Averages for 1981 are only for January and April quarters and therefore not comparable with previous years.

AGRICULTURAL EMPLOYMENT: Total workers on farms, quarterly, by islands, 1981[1]

Island	Self employed farm operators				Unpaid family members working 15+ hours				Hired workers			
	Jan.	Apr.	July[2]	Oct.[2]	Jan.	Apr.	July[2]	Oct.[2]	Jan.	Apr.	July[2]	Oct.[2]
Hawaii.........	2,200	2,050	NA	NA	850	650	NA	NA	2,950	2,950	NA	NA
Kauai..........	250	150	NA	NA	50	50	NA	NA	1,400	1,550	NA	NA
Maui/Mol./Lanai	400	400	NA	NA	100	100	NA	NA	2,500	2,850	NA	NA
Oahu...........	750	700	NA	NA	200	100	NA	NA	2,450	2,350	NA	NA
State 3/......	3,600	3,300	NA	NA	1,200	900	NA	NA	9,300	9,700	NA	NA

1/ Estimates for week which includes 12th of each survey month.
2/ Survey discontinued May 1981.
3/ Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Hired workers by type of farm, by islands, 1981[1]

Island	Sugar				Pineapple				Other			
	Jan.	Apr.	July[2]	Oct.[2]	Jan.	Apr.	July[2]	Oct.[2]	Jan.	Apr.	July[2]	Oct.[2]
Hawaii.........	1,350	1,400	NA	NA	0	0	NA	NA	1,600	1,550	NA	NA
Kauai..........	1,300	1,450	NA	NA	0	0	NA	NA	100	100	NA	NA
Maui/Mol./Lanai	1,200	1,100	NA	NA	1,000	1,350	NA	NA	300	400	NA	NA
Oahu...........	850	800	NA	NA	900	800	NA	NA	700	750	NA	NA
State 3/......	4,700	4,750	NA	NA	1,900	2,150	NA	NA	2,700	2,800	NA	NA

1/ Estimates for week which includes 12th of each survey month.
2/ Survey discontinued May 1981.
3/ Sum of island estimates may not add to State total due to rounding.

AGRICULTURAL EMPLOYMENT: Wage rates by method of pay and type of work, January and April 1981[1]

Method of pay	Jan.	Apr.	Type of work performed	Jan.	Apr.
	Dollars/hour			Dollars/hour	
All hired farm workers............	5.85	6.00	Field workers..............	5.04	5.17
Paid by other than piece-rate.....	5.90	5.99	Livestock workers..........	5.29	5.08
Paid by hour only................	5.58	5.73	Machine operators..........	6.37	6.83
Paid by hour cash wages only 2/....	5.50	4.45	Supervisors................	8.59	8.85

1/ Perquisites such as room and board, housing, etc., are provided some workers in all categories, except where footnoted otherwise, in addition to wage rates shown.
2/ Does not include perquisites. Includes only those paid by the hour.

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1977-81

Item	1977	1978	1979	1980	1981
			Dollars		
BUILDING MATERIALS:					
Framing lumber, 2" x 4", fir, standard and better, per 1,000 bd. ft.	480.00	540.00	590.00	615.00	570.00
Boards, per 1,000 bd. ft.:					
Rough, for farm fences and construction	520.00	630.00	760.00	795.00	750.00
Rough, redwood	NA	NA	NA	NA	1,075.00
Dressed, 1", pine, S4S, standard and better or No. 2 and better	465.00	540.00	620.00	730.00	730.00
Roofing:					
Asphalt shingles, 3 in 1 mineral surface, approx. 240 lbs., per square	35.00	39.50	44.00	54.00	54.00
Galvanized steel, 26 gauge, per 100 square feet	92.00	105.00	105.00	110.00	105.00
Plywood, exterior glue, ½", C-D-X, per 4' x 8' sheet	[1]475.00	[1]520.00	16.50	16.50	16.00
Concrete blocks, 8" x 8" x 16", per 100	90.00	96.00	105.00	115.00	122.00
Portland cement, per 94 lbs. net, each	4.70	5.20	6.10	7.80	8.70
Paint, house, exterior, per gallon	13.00	14.00	15.00	15.00	[2]
EQUIPMENT AND SUPPLIES:					
Iron pipe, galvanized:					
1-1/2" I.D., per foot	NA	NA	NA	NA	1.83
1-1/4" I.D., per foot	1.05	1.15	1.30	1.40	1.57
PVC pipe, per lin. foot:					
1", I.D	NA	NA	NA	NA	.44
2", I.D	NA	NA	NA	NA	.93
Plastic tubing, 1" I.D., per foot	.47	.52	.59	.91	[2]
Barbed wire, galvanized, 12-1/2-gauge, 4-point, per 80-rod spool	37.50	40.50	42.00	45.00	51.00
Stock fence (woven wire), 6" stay wire spacing, 12½-gauge wire, 32" high, per 20-rod roll	80.00	81.00	86.00	97.00	105.00
Steel post, line fence, each	3.30	3.55	3.75	4.00	4.25
Polypropylene shade cloth, 73%, 10' width per square foot	NA	NA	NA	NA	.17
Staples, fence, per pound	.82	.83	.84	.98	[2]
Hoe, 7" blade, each	9.90	10.50	11.50	12.00	[2]
Hand sprayer, pressure, 3-4 gallon capacity, each	27.00	28.00	31.00	35.50	42.00
Knapsack, sprayer, pressure, stainless steel, 5 gallon, each	NA	NA	NA	NA	145.00
Pitchfork, 4-tine, each	14.00	14.50	16.00	16.00	[2]
Nail hammer, 16 oz. head with handle, each	8.40	9.30	9.50	11.50	[2]
Adjustable end wrench, 10", each	8.50	8.50	9.10	10.50	[2]
Chain saw, gasoline, 20", each	260.00	275.00	305.00	310.00	[2]
Rope, manila, ½", per 100 feet	19.50	19.00	20.50	21.00	[2]
Rope, polypropylene, ½", per 100 feet	NA	NA	NA	19.00	22.00
Nails, 8d, common, per pound	.81	.87	.90	.96	1.05
Electric drill, ¼", each	21.50	23.00	23.00	26.00	[2]
Water heater, electric, 52 gal., each	NA	NA	180.00	200.00	[2]

See footnote at end of table.

Continued

Prices paid by Hawaii farmers, selected items, annual average, State of Hawaii, 1977-81 -- Continued

Item	1977	1978	1979	1980	1981
			Dollars		
FERTILIZER MATERIALS:					
Concentrated superphosphate, 44-46 percent P_2O_5, per ton	235.00	245.00	270.00	330.00	340.00
Sulphate of ammonia, per ton	155.00	165.00	175.00	195.00	230.00
Urea (45-46% N), per ton	220.00	240.00	235.00	295.00	310.00
Aqua ammonia (excludes cost of application), per ton	64.00	70.00	80.00	100.00	2/
MIXED FERTILIZERS:					
18-46-0, per ton	270.00	305.00	305.00	390.00	395.00
PETROLEUM PRODUCTS, MOTOR SUPPLIES AND SERVICES:					
Gasoline, per gallon (including Federal, State, and local taxes):					
Price, service station (unleaded)	.74	.79	1.00	1.36	1.59
Price, bulk delivery (leaded, regular)	.60	.64	.80	1.13	1.31
Diesel fuel, per gallon	.43	.47	.67	1.02	1.21
Motor oil, per gallon:					
Regular (non-detergent)	1.75	1.75	2.40	2.60	3.75
Heavy duty (detergent)	2.10	2.05	2.60	2.80	3.85
All-weather (high detergent)	2.40	2.30	2.95	3.15	4.05
Grease:					
Price, per 14-1/2 ounce cartridge	.95	1.10	1.25	1.49	2/
Price, per 35-pound pail	15.50	16.00	17.00	21.00	2/
Auto tires (tubeless):					
Radial, steel-belted, size P195/75R14, ER78-14, each	75.00	74.00	79.00	83.00	86.00
Bias-belted, size G78-14, each	45.50	45.50	54.00	61.00	63.00
Truck tires, each:					
7.00-15, 6-ply	53.00	53.00	63.00	74.00	77.00
9.00-20, 10-ply	NA	NA	150.00	195.00	245.00
Storage batteries, auto and light commercial 12 volt, cranking performance rating (CPR) (BCI STD):					
CPR 220-310 amps	38.50	42.50	48.50	57.00	58.00
CPR 315-500 amps	50.00	53.00	62.00	73.00	75.00
Spark plugs, each	1.80	1.90	1.90	2.00	2/
Antifreeze, permanent type, per gallon	7.80	8.20	7.90	8.50	2/
Oil filter:					
Cartridge refill, each	4.35	4.50	4.85	5.55	2/
Spin-on, each	5.70	5.90	6.20	6.65	2/
Services:					
Brakes, relining, materials and labor	95.00	105.00	130.00	135.00	2/
Chassis lubrication (automobile)	5.00	5.60	6.80	8.20	2/
Motor tuneup, labor only	23.50	22.50	30.00	31.00	2/

1/ Per 1,000 square feet prior to 1979. 2/ Item dropped from survey.

DEFINITION OF TERMS

Agriculture: All operations performed on a "farm" in connection with planting, growing, and harvesting of crops; raising and feeding of livestock and poultry, and management. All operations in connection with preparation of farm products for market where the preparation does not alter the form of the product and transportation to the first delivery point. In Hawaii, the first delivery point is defined as the processing plant door or other receivers' establishment for marketings on the island of production. For off-island marketings, the first delivery point is generally shipper's dock.

Farm: A place with estimated (or expected) annual sales of agricultural products of at least $1,000.

Livestock operation: A place that has one or more head of the species on hand at any time during the year. Does not have to meet farm definition.

Crop production: Estimated production is the amount of crop harvested and transferred at the first delivery point. Production estimates of vegetables and fruits include the quantity for fresh market and processing use.

Livestock production: Estimated amount of livestock and livestock products sold. Includes allowance for amount used on farms where produced.

Farm price: A computed price to value agricultural production which may or may not reflect the average price at which actual transfer of ownership took place but which is comparable with the definition of "agriculture". See "agriculture" for definition of pricing point.

Market supply: Includes pounds of product sold in Hawaii to both Armed Forces and civilians (outshipments excluded) plus products shipped in for civilian use. Direct inshipments to the Armed Forces are excluded.

SAMPLING METHODS AND ESTIMATION

The Hawaii Agricultural Reporting Service uses a variety of sampling techniques to produce current agricultural statistics about crops, livestock, prices, farm labor, and other information relating to the agricultural economy.

Data is collected, summarized and estimates are prepared. These estimates then pass through the Crop Reporting Board of the U. S. Department of Agriculture where, for major items, Hawaii estimates become part of National totals and enter the official data base for agriculture. National and State estimates are published according to a schedule set one year in advance.

The Hawaii Agricultural Reporting Service conducts many of its surveys by virtually complete ENUMERATION of certain parts of the population. This is unusual compared to procedures in other states but is feasible in Hawaii due to the relatively small size of certain categories of the farm universe or the extreme concentration of ownership. Vegetable and poultry surveys are among those where complete enumeration is the usual procedure.

LIST SAMPLING is a common means of data collection. Lists of farm operators are well suited for the low cost collection of information by mail. Supplementary information is included within the frame that allows the use of efficient stratified sample designs. A major disadvantage of this method is the constant change in the list frame which can never be perfect. In Hawaii, cattle and hog surveys are examples of stratified list sample designs.

AREA FRAME SAMPLING can be used alone or in conjunction with the list frame. The frame consists of an aggregation of identifiable units of land or segments which may be sampled. The frame is complete and does not suffer the type of deterioration over time as does a list frame.

MULTIPLE-FRAME SAMPLING is the use of two frames. It takes advantage of the best attributes of the area frame and the list frame, produces unbiased estimates and allows measurement of the sampling error. This survey method is currently used for agricultural employment and wage rate surveys.

OBJECTIVE YIELD SURVEYS provide information from direct counts, measurements and weights of the crop made from small plots in a probability selection of sample fields. Currently, this method is used for forecasting papaya yield four months in advance of harvest. Research is underway to determine the feasibility of using this methodology on other crops.

CHECK DATA is used in addition to producer surveys to establish final production and marketings. These include processor receipts, slaughter, vacuum cooler volume, public tax records, and inspections. Unloads at Honolulu and wholesale prices as reported by the Market News Service, are an important check data source. Also, grower organizations, such as the Hawaiian Sugar Planters' Association, provide an efficient means of obtaining information concerning sugar production.

Hawaii
Agricultural
Reporting
Service

REPORTS ISSUED

Report	Frequency
CROP RELEASES	
Bananas - Acreage, Production & Price	Monthly
Coffee	Semi-annually
Fresh Fruit	Annually
Processed Fruit	Annually
Ginger Root	Annually
Guavas	Annually
Macadamia Nuts	Semi-annually
Papayas - Acreage, Production & Price	Monthly
Sugar - Acreage & Production	Semi-annually
Taro	Annually
Vegetables - Acreage, Production & Price	Monthly
Vegetables	Annually
Vegetables Processed - Quantity & Price	Annually
FLOWERS AND NURSERY PRODUCTS	
Anthuriums - Exports	Monthly
Dendrobium Orchids	Annually
Flowers and Nursery Products	Annually
Out-of-State Sales	Annually
Poinsettias	Semi-annually
Proteas - Plant Inventory	Periodically
LIVESTOCK RELEASES	
Cattle - Jan. 1, Inventory & Calf Crop	Annually
Cattle - Slaughter and Pasture Condition	Monthly
Chickens & Eggs	Monthly
Hogs - Dec. 1, Inventory & Pig Crop	Annually
Hogs - Slaughter	Monthly
Honey	Annually
Milk - Production, Cow Numbers & Prices	Monthly
WEEKLY CROP WEATHER	Weekly
OTHER PUBLICATIONS	
Agricultural Labor & Wage Rates	Annually
Prices Paid - Feed	Monthly
STATISTICS OF HAWAIIAN AGRICULTURE	Annually

The above reports may be obtained by contacting the Hawaii Agricultural Reporting Service, P. O. Box 22159, Honolulu, HI 96822 (Office - 1428 S. King St., Honolulu, HI).

EXPLANATION OF GRAPHS AND TABLES ON PAGES 78 AND 84

BEEF-VEAL SUPPLY: Historical beef-veal supply data consists of all Hawaii production, carcass weight basis, foreign imports, converted to carcass weight equivalent and mainland inshipments, weight-as-shipped. Foreign and mainland inshipments of processed beef are excluded. Also, no adjustment is made for changes in inventory. Estimated supplies are derived as a function of U. S. per capita consumption of beef and veal, and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1970 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable with which the supply equation was estimated. The resulting equation indicated Hawaii beef supply with a correlation coefficient of .98.

PORK SUPPLY: All historical and estimated pork supply data involved dressed weight of pork with the exception of mainland inshipments which, at times, includes live hogs shipped into Hawaii for slaughter. Foreign and mainland inshipments of processed pork are excluded. Estimated supplies are derived as a function of U. S. per capita consumption of pork and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on Hawaii production, U. S. mainland, and foreign inshipments were totaled to serve as the dependent variable in estimating a market supply equation. The resulting equation indicated Hawaii pork supply with a correlation coefficient of .90.

CHICKEN-BROILER SUPPLY: All historical chicken-broiler poundage data, as well as estimated supplies, are expressed on a ready-to-cook basis. Estimated supplies are derived as a function of U. S. per capita consumption and Hawaii's de facto population (excludes the armed forces). Yearly historical data from 1950-1969 on U. S. mainland inshipments and Hawaii production was totaled to serve as the dependent variable in estimating the supply equation. The resulting equation indicated Hawaii chicken-broiler supply with a correlation coefficient of .99.

Revisions to prior years are made when final figures on population and per capita consumption are available.

PHOTOGRAPHY ACKNOWLEDGEMENTS

Cover photo of McBryde Sugar Co. Ltd.'s Koloa factory on Kauai, courtesy of Alexander and Baldwin, Inc.

View from Molokai showing a fish pond levee. Across the Kalohi Channel is the Island of Lanai. Photo courtesy of the Hawaii Visitors Bureau, page 2.

Loading of sugarcane for hauling to the mill is easier and faster with the new triple extension mobile hydraulic crane. Photo courtesy of Alexander and Baldwin, Inc., page 14.

Ulupalakua Ranch overlooking Kihei and the west Maui mountains. Photo courtesy of the Hawaii Visitors Bureau, page 70.